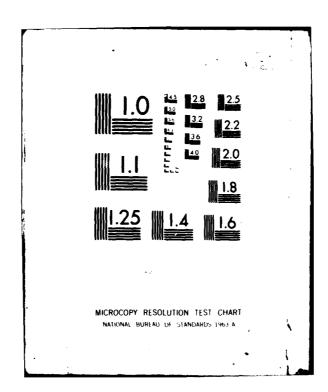
AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX F/G 5/1 GROUND RADIO COMMUNICATION SPECIALTY, AFSC 304X4.(U) AD-A108 707 NOV 81 UNCLASSIFIED NL





UNITED STATES AIR FORCE

# OGGPATIONAL SURVEY REPORT

GROUND RADIO COMMUNICATION SPECIALTY

AFSC 304X4

AFPT 90-304-422

VOL-HI OF IV

NOVEMBER 1981

DEC 1 7 1981

OCCUPATIONAL ANALYSIS PROGRAM USAF OCCUPATIONAL MEASUREMENT CENTERA AIR TRAINING COMMAND RANDOLPH AFB, TEXAS 78150

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# TABLE OF CONTENTS

|  | PAGE<br>NUMBER |
|--|----------------|
| PREFACE  | iii            |
| SUMMARY OF RESULTS   | iv             |
| INTRODUCTION   | 1              |
| SURVEY METHODOLOGY   | 2              |
| CAREER LADDER STRUCTURE                                      | 6              |
| ANALYSIS OF DAFSC GROUPS                                     | 29             |
| ANALYSIS OF EXPERIENCE (TAFMS) GROUPS                        | 38             |
| COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS | 46             |
| ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS                     | 46             |
| ANALYSIS OF MAJOR COMMAND DIFFERENCES                        | 49             |
| TRAINING ANALYSIS  | 56             |
| ANALYSIS OF WRITE-IN COMMENTS                                | 62             |
| COMPARISON TO PREVIOUS SURVEY                                | 64             |
| IMPLICATIONS   | 68             |
| APPENDIX A   | 69             |
| APPENDIX B   | 70             |

#### PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Ground Radio Communications Specialty (AFS 304X4). The report was prepared for AFMPC/MPCRPQ in response to their request for occupational data on the tasks and jobs.performed by 304X0, 304X4, and 304X6 personnel, with primary emphasis on the possible merger of the three career ladders. Authority for conducting surveys is contained in AFR 35-2. Computer outputs from which this report was produced are available for use by operating and training officials.

The Air Force occupational survey program has been in existence since 1956 when initial research was undertaken by AFHRL (Air Force Systems Command) to develop a methodology for gathering and analyzing occupational information. In 1967, an operational occupational survey program was established within the Air Training Command and surveys were produced annually for 12 enlisted specialties. In 1972, the program was expanded to conduct occupational surveys covering 51 career fields annually. In late 1975, the program was again expanded to include the survey of officer utilization fields, to permit special management applications projects, and to support interservice or joint service occupational analysis.

The survey instrument used in the present project was developed by First Lieutenant Julia Hoskins, Inventory Development Specialist. First Lieutenant Gordon Curphy analyzed the survey data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78150.

Copies of this report were distributed to the organizations listed on the preceding page. Copies are available to other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78150.

This report has been reviewed and is approved.

PAUL T. RINGENBACH, Col, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

#### SUMMARY OF RESULTS

- 1. Survey Coverage: Inventory booklets were administered to Ground Radio Communications (AFS 304X4) personnel worldwide. Survey results are based on the responses of 1,618 AFS 304X4 incumbents (38 percent of assigned). A majority of the incumbents surveyed were assigned to AFCC, ESC, or TAC.
- 2. Career Ladder Structure: DAFSC 304X4 personnel were found to be performing 22 different types of jobs. The personnel in 10 of these major job groups (comprising a majority of the sample) are performing a technical job involving some aspect of ground radio equipment maintenance or installation. The types of jobs performed by these personnel involve maintaining air traffic control equipment, mobile communications equipment, GIANT TALK equipment, missile equipment, or the installation of this equipment. The personnel in the remaining 12 major job groups perform a nontechnical job involving administration, supervision, or training. Examples of some of these types of jobs include personnel performing job control, quality control, or resident training functions.
- 3. Career Ladder Progression: Three-skill level personnel are maintenance oriented, and spend a majority of their job time maintaining receivers or transmitters or performing general maintenance functions. DAFSC 30454 personnel are also maintenance oriented, but seem to spend about 15 percent of their job time on supervisory functions. DAFSC 30474 personnel appear to be firstline supervisors, with these respondents roughly dividing their time between maintenance and supervisory duties.
- 4. TAFMS Groups: The trend of an increasing percentage of time spent on supervisory functions with increasing months TAFMS is typical. A review of job satisfaction data reveals 304X4 first-term (1-48 months TAFMS), second-term (49-96 months TAFMS), and career (97+ months TAFMS) personnel are generally somewhat more satisfied than their counterparts in other related career ladders. In addition, a review of the equipment maintained or test equipment utilized reveals higher percentages of first-termers maintain the most common types of ground radio equipment than second-term or career personnel.
- 5. Analysis of CONUS Versus Overseas Groups: Overall, the jobs and tasks performed by these two DAFSC groups 30454 were similar. A higher percentage of overseas personnel were identified as performing maintenance on tube type equipment.
- 6. Major Command Comparison: ATC personnel are responsible for various aspects of resident technical school training. TAC personnel are primarily responsible for maintaining the ground radios associated with tactical communications units or Combat Communications Groups. ESC personnel maintain different types of receivers than other MAJCOM personnel. AFCC personnel were differentiated by the Air Traffic Control tasks they performed. MAC personnel were differentiated by the intercom and recorder maintenance tasks they performed.

- 7. Training Analysis: The 3-, 5-, and 7-skill level AFR 39-1 Specialty Descriptions were found to provide a clear overview of the 304X4 career ladder. The STS, dated August 1979, appears to provide a comprehensive overview of the training requirements for the 304X4 specialty.
- 8. Implications: It appears that 304X4 first-termers are responsible for more of the toal 304X4 maintenance workload than ever before. Thus, resident technical training and OJT personnel need to be aware of this trend and make necessary adjustments. In addition, trainers and managers should look at the feasibility of creating separate AFSCs for job control and E&I personnel in the 30XXX career field.

1

# OCCUPATIONAL SURVEY REPORT GROUND RADIO COMMUNICATIONS SPECIALTY (AFS 304X4)

#### INTRODUCTION

This is a report of an occupational survey of the Ground Radio Communications (AFS 304X4) specialty, completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in September 1981. The survey was initiated at the request of AFMPC/MPCRPQ in order to determine the feasibility of merging three radio maintenance specialties (AFSs 304X0, 304X4, and 304X6) into a common specialty. In order to properly address this issue, personnel in all three specialties were surveyed using a common job inventory. The feasibility of merging the three specialties and other types of analyses across the three career ladders are presented in a combined report (AFPT 90-304-422, Volume I). This report concentrates primarily on the results relating to the Ground Radio Communications (AFS 304X4) specialty. Detailed results of the Wideband Communications Equipment (AFS 304X0) and Space Communications Systems Equipment (AFS 304X6) specialties are provided in two separate reports (AFPT 90-304-422, Volumes II and IV).

#### Background

As outlined in the current AFR 39-1 Specialty Descriptions, Ground Radio Communications personnel are responsible for installing or maintaining transmitters, receivers, transceivers, and related equipment, including AM, FM, SSB and ISB applicable to point-to-point, ground-to-air, facsimile, LF, HF, VHF and UHF systems, recorders, display equipment and base radio systems. These incumbents are assigned primarily to Communications Squadrons or Groups, Technical Control Squadrons, or Combat Communications Groups, with 304X4 incumbents responsible for maintaining the LF, HF, VHF, or UHF type systems associated with these organizations.

Historically, the 304X4 specialty has gone through many title and DAFSC designation changes over the years. The 304X4 career ladder had its beginning in 1954 with two AFSCs, the 304X2 for light radio equipment and the 304X3 for heavy radio equipment. In May 1955, both ladders were shredded in order to permit specialization around certain pieces of light and heavy radio equipment. The shreds were deleted in February 1959 and the two career ladders were then merged in 1963. Other than some minor title changes, the ladder has remained virtually unchanged since that time.

Formal training for personnel entering the 304X4 specialty is available at Keesler Technical Training Center. This is a 115 day course in which future Ground Radio Communications personnel receive orientation in the areas of electronic principles, test equipment, VHF transceivers, UHF transceivers, communications consoles, and control tower communications systems. Approximately 1,300 personnel graduate from this course each year, and upon completion graduates are awarded a 3-skill level and are assigned to various units worldwide.

# **Objectives**

This report will examine the Ground Radio Communications specialty (AFS 304X4) on the basis of the tasks performed by the survey respondents. The survey instrument used for this report was a combined 304X0, 304X4, and 304X6 and results of the 304X0, 304X6, and joint 304X0, 304X4 and 304X6 analyses are in three separate reports (AFPT 90-304-422 Volumes I, II, and IV). Users of this report should examine the other three reports also in order to better assess the 304X4 specialty. Topics discussed in this report include: (1) development and administration of the survey instrument; (2) the jobs performed by 304X4 personnel; (3) CONUS versus overseas differences; (4) comparisons of the job structure to current AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS); and (5) job satisfaction and other related background data.

#### SURVEY METHODOLOGY

# Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-304-422. As a starting point, the tasks listed in the 1975 304X0, the 1976 304X4, and the 1976 304X6 job inventories were reviewed for currency by the Inventory Development Specialist and Instructors from each specialty at the Keesler Technical Training Center. They then reviewed all pertinent career ladder publications and directives for additional radio related This tentative task list was then reviewed for completeness and accuracy by 304X0, 304X4, and 304X6 personnel at Andrews AFB MD, Tinker AFB OK, Robins AFB GA, and Offutt AFB NE. The resulting task list was reviewed again by Keesler Technical Training Instructors from all three AFSCs who sat in a face-to-face encounter to insure the tasks were representative of the jobs performed by 304X0, 304X4, and 304X6 personnel. This encounter helped to insure that the skills and knowledges needed to perform a task were the same, regardless of the equipment associated with the task. for example, wiring diagrams of VHF radio equipment using amplifiers were presented during the encounter, and the Training Instructors debated on whether the skills and knowledges needed to isolate malfunctions on one type of equipment was essentially the same as the other types of equipment. If the skills and knowledges were similar, then only one task was written, such as "isolate AM receiver malfunctions". If the skills and knowledges differed to some degree, then a number of more equipment specific tasks were written, such as "isolate malfunctions in GIANT TALK control consoles." Another example of this type of commonality discussion centered around components of various systems. In this study there was a consensus that most components removed and replaced required the same skill no matter what system they were located in. For example, the task "adjust limiter components" indicates that the skill is the same no matter what equipment it is located in.

This process resulted in a final job inventory of 863 tasks grouped under 23 duty headings. In addition, a background section was included which asked for information about each respondent, such as grade, Total Active Federal Military Service (TAFMS), duty title, job interest, and the type of radio system maintained or operated.

# Job Inventory Administration

During the period October 1980 through February 1981, Consolidated Base Personnel Offices in operational units worldwide administered the inventory to all job incumbents holding a DAFSC of 304X0, 304X4, or 304X6. These job incumbents were identified using AFMPC personnel data tapes available through the Air Force Human Resources Laboratory (AFHRL).

Each individual who filled out an inventory first completed an identification and biographical information section and then checked each task performed in their current job. After checking all tasks performed, each member then rated each of these tasks on a nine-point scale showing relative time spent on the task as compared to all other tasks checked. The ratings ranged from one (very small amount of time spent) through five (about average time spent) to nine (very large amount time spent).

To determine relative time spent for each tasks checked by a respondent, all of an incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task is then divided by the total task ratings and multiplied by 100. This procedure provides a basis for comparing tasks in terms of both percent members performing and relative percent time spent.

#### Task Factor Administration

In addition to completing the job inventory, selected senior 304X4 personnel were also asked to complete a second booklet for task difficulty. The task difficulty rating booklets are processed separately from the job inventories. This information is used in a number of different analyses discussed in more detail within the report.

Task Difficulty. We asked each senior NCO completing a task difficulty booklet to rate all of the tasks on a nine-point scale from extremely low to extremely high as to the relative difficulty of that task. Difficulty is defined as the length of time it requires an average member to learn to do that task. Task difficulty data was independently solicited from experienced 7- or 9-skill level personnel stationed worldwide in each specialty. The interrater reliability (as assessed through components of variance of standard group means) for the 50 DAFSC 304X4 raters who returned booklets was .94 which suggests very high agreement. Ratings were then adjusted so that tasks of average difficulty have ratings of 5.0. The resulting data is a rank ordering of tasks indicating a degree of difficulty for each task in the inventory.

Job Difficulty Index. After computing the task difficulty index for each item, it is then possible to compute a Job Difficulty Index (JDI) for the job groups identified in the survey analysis. This index provides a relative measure of which jobs, when compared to other jobs identified, are more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent as variables are the basis for the JDI. This index ranges from one for very easy jobs to 25 for very difficult jobs. The data are adjusted so that the average job difficulty index is 13.00. Thus, the more time a group spends performing difficult tasks, and the more

tasks they perform, the higher will be their job difficulty index. The JDI ratings for the 304X4 career ladder can be found in the CAREER LADDER STRUCTURE section of this report.

When used in conjunction with other factors, such as percent members performing, the task difficulty ratings can provide insight into the training requirements of the specialty. This may help validate the lengthening or shortening of specific units of instruction to refine various training programs.

# Survey Sample

Personnel were selected to participate in this survey so as to insure an accurate representation across all career ladders, MAJCOMs, and paygrade groups. In this study, fifty percent of the incumbents with a 304X4 DAFSC who were available for sampling were solicited for their responses. Table 1 reflects both the percentage of personnel in the sample as well as the major command distribution of personnel assigned to the 304X4 career ladder as of the Spring 1981. Table 2 reflects the percentage distribution by paygrade for the 304X4 ladder. Table 3 reflects the distribution of the survey sample in terms of TAFMS groups. Overall, a representative sample was obtained, with 1,618 of the 4,286 respondents (38 percent) assigned to the 304X4 career ladder sampled.

# Data Processing and Analysis

Once job inventories are returned from the field, they are prepared so that task responses and background information can be optically scanned. Other biographical information (such as name, base, autovon extension) is keypunched onto disks and entered directly into the computer. Once both sets of data are in the computer, they are merged to form a complete case record for each respondent. Computer generated programs using Comprehensive Occupational Data Analysis Programs (CODAP) techniques were then applied to the data.

CODAP produces job descriptions for respondents based on their responses to specific inventory tasks. Computer generated job descriptions are available for DAFSC groups, TAFMS groups, and MAJCOM groups, and include such information as percent members performing each task, the average percent time spent performing each task, the percent members utilizing various pieces of equipment, and the cumulative average percent time spent by all members for each task in the inventory.

TABLE 1

COMMAND DISTRIBUTION OF SURVEY SAMPLE

| MAJOR COMMAND | PERCENT OF<br>ASSIGNED | PERCENT OF<br>SAMPLE |
|---------------|------------------------|----------------------|
| AFCC          | 63                     | 67                   |
| ESC           | 10                     | 7                    |
| TAC           | 9                      | 9                    |
| ATC           | 4                      | 4                    |
| MAC           | 2                      | 3                    |
| USAFE         | -                      | 4                    |
| OTHER         | 12                     | 6                    |
| TOTAL         | 100                    | 100                  |

TOTAL 304X4 ASSIGNED: 4,286 TOTAL 304X4 SURVEYED: 1,618

PERCENT OF ASSIGNED SAMPLED: 38%

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

| PAYGRADE | PERCENT OF ASSIGNED | PERCENT OF SAMPLE |
|----------|---------------------|-------------------|
| AIRMAN   | 23                  | 23                |
| E-4      | 26                  | 25                |
| E-5      | 26                  | 28                |
| E-6      | 15                  | 15                |
| E-7      | 10                  | 9                 |
| TOTAL    | 100                 | 100               |

TABLE 3
TAFMS DISTRIBUTION OF SURVEY SAMPLE

|   |                    | MONTHS     | TAFMS      |               |
|---|--------------------|------------|------------|---------------|
|   | 1-48               | 49-96      | 97+        | TOTAL         |
| NUMBER IN SAMPLE<br>PERCENT OF 304X4 SAMPLE | 605<br>3 <b>8%</b> | 354<br>22% | 656<br>40% | 1,618<br>100% |

#### CAREER LADDER STRUCTURE

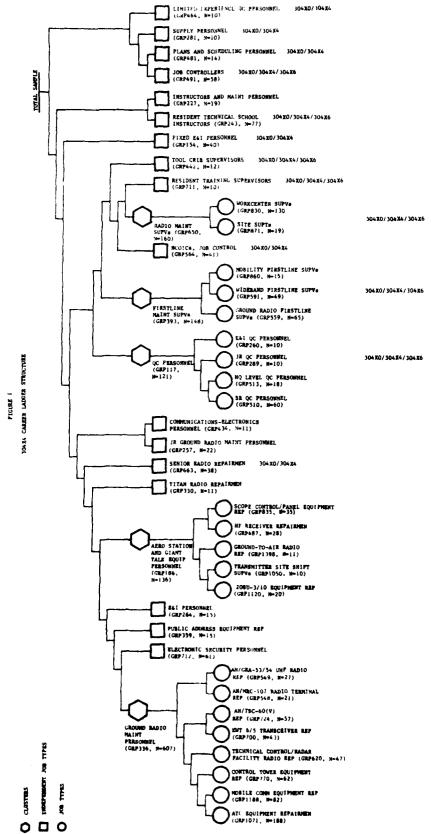
Many times an in-depth description of the different kinds of work accomplished by the personnel in a particular specialty may be needed. Although the AFR 39-1 Specialty Descriptions and the 304X4 Specialty Training Standard (STS) provide a general overview of the type of work performed and equipment maintained, many times management and training personnel need more specific data for making specialty related decisions. By describing the different types of jobs performed and the types of equipment maintained or operated by the personnel performing these various jobs, management possesses a much more powerful tool for decision-making.

The analysis performed in this section is designed to describe the major types of jobs performed by personnel in the 304X4 specialty, such as job control, ground radio maintenance, and technical training. This analysis is based primarily upon the tasks performed and the time spent ratings provided by 304X4 respondents, rather than on specialty or other background factors.

For the purpose of organizing individual jobs into similar units of work, an automated job clustering program is used. This hierarchical grouping program is a basic part of the Comprehensive Occupational Data Analysis Program (CODAP) system for job analysis. Each individual job description in the sample is compared to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job The automated system is designed to locate the two job descriptions with the most similar tasks and percent time ratings and combine them to form a composite job description. In successive stages, new members are added to initial groups or new groups are formed based on the similarity of tasks and percent of time ratings in each individual job description. procedure is continued until all individuals and groups are combined to form a single composite representing the total sample. The resulting analysis of the variety of groups of jobs serves to identify: (1) the number and characteristics of the different jobs which exist within the career ladders; (2) the tasks which tend to be performed together by the same respondents; and (3) the breadth or narrowness of the jobs which exist within the Ground Radio Communications career ladder.

The basic identifying group used in the hierarchical job structuring process is the Job Type. A job type is a group of individuals who perform many of the same tasks and spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as Clusters. In many career fields, there are specialized job types that are too dissimilar to be grouped into any cluster. These unique groups are labeled Independent Job Types.

The jobs performed by Ground Radio Communications career ladder incumbents are illustrated in Figure 1. Based on the similarity of tasks performed and the amount of time spent performing each task, five clusters and 17 independent job types were identified. These clusters and independent job types are on the following pages:



- I. GROUND RADIO MAINTENANCE PERSONNEL (GRP336, N=607)
  - a. Air Traffic Control Equipment Repairmen (GRP1071, N=188)
  - b. Mobile Communications Equipment Repairmen (GRP1188, N=82)
  - c. Control Tower Equipment Repairmen (GRP770, N=62)
  - d. Technical Control/Radar Facility Radio Repairmen (GRP620, N=47)
  - e. KWT-6/5 Transceiver Repairmen (GRP700, N=43)
  - f. AN/TSC-60(V) Communications Central Repairmen (GRP724, N=57)
  - g. AN/MRC-107 Radio Communications Terminal Repairmen (GRP548, N=21)
  - h. AN/GRA-53/54 UHF Radio Repairmen (GRP549, N=27)
- II. ELECTRONIC SECURITY PERSONNEL (GRP712, N=61)
- III. PUBLIC ADDRESS EQUIPMENT REPAIRMEN (GRP359, N=15)
- IV. ENGINEERING AND INSTALLATION (E&I) PERSONNEL (GRP264, N=15)
- V. AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL (GRP186, N=136)
  - a. 208U-3/10 Equipment Repairmen (GRP1120, N=20)
  - b. Transmitter Site Shift Supervisors (GRP1050, N=10)
  - c. Ground-to-Air Radio Repairmen (GRP1398, N=11)
  - d. HF Receiver Repairmen (GRP487, N=28)
  - e. SCOPE CONTROL/PANEL Equipment Repairmen (GRP835, N=35)
- VI. TITAN RADIO REPAIRMEN (GRP330, N=11)
- VII. SENIOR RADIO REPAIRMEN (GRP663, N=38)

304X0/4

- VIII. JUNIOR GROUND RADIO MAINTENANCE PERSONNEL (GRP257, N=22)
  - IX. COMMUNICATIONS-ELECTRONICS PERSONNEL (GRP434, N=11)
  - X. QUALITY CONTROL PERSONNEL (GRP117, N=121)

304X0/4/6

- a. Senior Quality Control Personnel (GRP510, N=60)
- b. HQ Level Quality Control Personnel, (GRP513, N=18)
- c. Junior Quality Control Personnel (GRP289, N=10)
- d. E&I Quality Control Personnel (GRP260, N=10)
- XI. FIRSTLINE MAINTENANCE SUPERVISORS (GRP393, N=148)

304X0/4/6

- a. Ground Radio Firstline Supervisors (GRP559, N=65)
- b. Wideband Firstline Supervisors (GRP591, N=49)
- c. Mobility Firstline Supervisors (GRP860, N=15)
- XII. NCOICS, JOB CONTROL (GRP564, N=41)

304X0/4

XIII. RADIO MAINTENANCE SUPERVISORS (GRP650, N=160)

304X0/4/6

- a. Site Superintendents (GRP871, N=19)
- b. Workcenter Supervisors (GRP830, N=130)

| XIV.   | RESIDENT TRAINING SUPERVISORS (GRP711, N=10)                      | 304X0/4/6 |
|--------|---|-----------|
| XV.    | TOOL CRIB SUPERVISORS (GRP412, N=12)                              | 304X0/4/6 |
| XVI.   | FIXED ENGINEERING AND INSTALLATION (E&I) PERSONNEL (GRP154, N=40) | 304X0/4   |
| XVII.  | RESIDENT TECHNICAL SCHOOL INSTRUCTORS (GRP243, N=77)              | 304X0/4/6 |
| XVIII. | INSTRUCTORS AND MAINTENANCE PERSONNEL (GRP227, N=19)              | 304X0/4/6 |
| XIX.   | JOB CONTROLLERS (GRP491, N=58)                                    | 304X0/4/6 |
| XX.    | PLANS AND SCHEDULING PERSONNEL (GRP481, N=14)                     | 304X0/4   |
| XXI.   | SUPPLY PERSONNEL (GRP281, N=10)                                   | 304X0/4   |
| XXII.  | LIMITED EXPERIENCE QUALITY CONTROL PERSONNEL (GRP464, N=10)       | 304X0/4   |

The DAFSC 304X4 respondents forming these job types and clusters account for 79 percent of the 304X4 survey sample. The remaining 21 percent did not group with any of the clusters or job types described above. Some of the titles held by the remaining 21 percent include: Ground Radio Equipment Repairman, NCOIC, COMSEC Maintenance, SIP Training Instructors, Job Controller, VIP Maintenance, and Installation Team Member. These personnel did not group with any cluster or job type because of either the unique job they perform or in the manner in which they perceive their job.

#### Overview

Generally, the career ladder is fairly heterogeneous, with a wide variety of radio maintenance, administrative, training, and supervisory jobs being performed by 304X4 personnel. These jobs can be divided roughly into two general functional areas. The first functional area includes all those 304X4 personnel who perform the various technical aspects of ground radio communication equipment maintenance. This functional area includes ten major job groups and makes up a majority of the 304X4 personnel sampled. Some of the major job groups found in this functional area include: Ground Radio Maintenance Personnel, Electronic Security Personnel, E & I Personnel, and Titan Radio Repairmen. The key differentiating factors for these major job groups seem to be the ground radio mission performed, equipment maintained, and the average number of tasks performed.

The second functional area includes the remaining twelve major job groups, in which most of these incumbents spend a majority of their job time on various aspects of ground radio training, supervision, or administrative type duties rather than on ground radio maintenance or installation. Since most of these incumbents do not perform "hands-on" ground radio maintenance, the key differentiating factor for the personnel in these 12 major job groups is the differing amounts of time spent performing either supervisory, administrative, or training related tasks. In addition, most of the major job groups in this functional area are also comprised of substantial percentages of both DAFSC 304X0 and 304X6 personnel.

The data analyzed for this section are reported in two different ways. A brief narrative description of each cluster and independent job type is presented below. This narrative description is designed to give an overview for each of the major job groups identified. In addition to the overview, there are three types of tables at the end of this section which also provide pertinent data for each major job group. These tables can be particularly useful for gathering more in-depth information or for making quick comparisons between major job groups.

As stated earlier, there are three types of tables at the end of this section which provide information about each of the clusters and independent job types. These tables can help to identify differences in the types of work performed, equipment maintained, job satisfaction, and DAFSC distribution for each major job group. Tables 4, 5 and 6 provide the relative percent time spent on duties, and can help to identify the maintenance, supervisory, and other functions that different groups concentrate on performing. For example, when comparing Electronic Security Personnel with Titan Radio Repairmen, Table 4 reveals that Electronic Security Personnel spend 26 percent of their job time maintaining receivers, while Titan Radio Repairmen spend only half as much time performing the same duty. Tables 7, 8, and 9 provide selected background information, and can reveal equipment differences, TAFMS differences, and paygrade differences between major job groups. For example, Table 8 reveals a very low percentage of QC Personnel reporting maintaining any type of ground radio equipment, while somewhat higher percentages of Firstline Maintenance Supervisors report maintaining such equipment as the KWM-2/2A, AN/GRC-171, and AN/GRT-21. Finally, Tables 10, 11, and 12 reveal job satisfaction differences for the personnel in the major job groups, and can be particularly useful in pointing out which types of jobs may have potential morale problems. An examination of these last three tables reveals that Junior Ground Radio Maintenance Personnel, Communications-Electronics Personnel, NCOICs, Job Control, Fixed E & I Personnel, Job Controllers, and Supply Personnel have somewhat lower job satisfaction indicators than the other major job groups identified.

Also included in this report are two appendices concerning the Ground Radio Communications career ladder structure. Appendix A yields various duty, background, and job satisfaction information about the job types identified within each of the clusters reported in this section, as well as providing a brief narrative description for the job types identified. Appendix B lists common tasks performed by the personnel in each major job group, and when used in conjunction with the data presented in this section, they can provide additional insight about the type of work personnel in a particular job perform.

I. GROUND RADIO MAINTENANCE PERSONNEL (GRP336). This cluster of 607 respondents is the largest in the sample, with approximately 68 percent of these personnel holding DAFSC 30454. These incumbents are responsible for maintaining both fixed and transportable transmitters, receivers, point-to-point, ground-to-air LF, HR, VHF, and UHF systems. Some of the typical equipment these incumbents maintain include the AN/GRC-171, AN/GRC-175, and AN/GRR-24, which are often used for air traffic control at various air bases. Typical tasks performed by these 304X4 personnel include:

isolate malfunctions in UHF power amplifiers perform .MIs on AM receivers perform PMls on AM UHF transmitters or exciters adjust automatic gain control (AGC) components align transceivers

These incumbents perform a fairly high number of tasks (125) and perform a job above average in difficulty (JDI equals 16.4, see the INTRO-DUCTION for an explanation of the JDI). These incumbents appear to be fairly satisfied with their job, with 75 percent finding their job interesting and 87 percent perceiving their training is utilized at least fairly well.

II. ELECTRONIC SECURITY PERSONNEL (GRP712). These 61 personnel are all Electronic Security Command resources who are primarily responsible for maintaining the AN/FLR-9. This radio system is primarily used to monitor communications and to determine that communications' origin. All of the DAFSC 304X4 personnel performing this job hold either the 5- or 7-skill level, and typical tasks performed by these incumbents include:

align AM receivers perform PMIs on recorders or reproducers adjust audio amplifier components secure classified materials remove or replace electronic subassemblies

As expected, a majority of these respondents are located overseas (95 percent) and are fairly senior (only 16 percent in their first enlistment). These incumbents are somewhat less satisfied than the above major job group, with only 64 percent finding their job interesting and 45 percent planning to reenlist.

III. PUBLIC ADDRESS EQUIPMENT REPAIRMEN (GRP359). These 15 personnel maintain many of the same types of air traffic control equipment as Ground Radio Maintenance Personnel, such as the AN/GRC-171, AN/GRC-175, and AN/GRR-24. These incumbents, however, seem to concentrate more on maintaining the recording and reproducing equipment associated with these systems and maintaining public address systems than the above major job group. Representative tasks performed by these incumbents include:

perform PMIs on recorders or reproducers isolate malfunctions in recorders or reproducers adjust squelch circuit components set up or remove public address systems adjust public address system components

These incumbents are junior, with 40 percent holding the 3-skill level and 80 percent are in their first enlistment. These incumbents are among the most satisfied of all major job groups, with 80 percent finding their job interesting and 100 percent perceiving their training is being utilized at least fairly well.

IV. ENGINEERING AND INSTALLATION (E&I) PERSONNEL (GRP264). Rather than maintaining radio or associated equipment, these 15 DAFSC 304X4 respondents are responsible for the installation of electronic equipment worldwide. Somewhat unexpectedly, these incumbents appear to be fairly junior, with 40 percent holding the 3-skill level and 67 percent still in their first enlistment. Typical tasks performed by these incumbents are installation or operationally oriented, and include:

crate or uncrate components or modules splice wiring or cables perform system modifications install or remove mounting equipment perform preoperational checks of equipment

Since these incumbents are primarily installing equipment, fairly low percentages of these respondents report maintaining any type of equipment. E & I Personnel seem to be fairly satisfied with their job, with 93 percent finding their job interesting and 73 percent perceiving their talents are utilized fairly well or better.

V. AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL (GRP186). These 136 304X4 incumbents maintain the ground-to-air radios and associated radio equipment found at aeronautical stations and GIANT TALK facilities, such as the 208U-3, 208U-10, or R-390A. Many of the tasks these incumbents perform involve maintaining universal radio group (URG), frequency shift keying (FSK), or allotter components, such as:

isolate malfunctions in allotter presets
adjust URG status display readout components
adjust URG data bypass equipment components
adjust frequency shift keying (FSK) telephone components
adjust line amplifier components

The personnel maintaining aeronautical station and GIANT TALK equipment seem to be fairly senior (averaging 79 month TAFMS) and 55 percent are located at overseas locations. These incumbents perform a fairly difficult job (JDI equals 15.9), and appear to be fairly satisfied with their job, with 85 percent perceiving their talents are utilized at least fairly well and 53 percent plan to reenlist.

VI. TITAN RADIO REPAIRMEN (GRP330). These 11 DAFSC 304X4 incumbents are located at the three primary Titan issile locations and are responsible for maintaining the AN/GRC-117 radio system used in the missile complexes. The AN/GRC-117 is a hardened, survivable communications system which provides simultaneous voice and digital communications prior to and following an atomic attack. These incumbents are fairly junior, averaging only 37 months TAFMS and 73 percent are in their first enlistment. Typical tasks performed by these personnel while maintaining the AN/GRC-117 include:

adjust driver, intermediate power, or transmit facility link amplifier components perform PMIs on FM UHF transmitters, exciters, or up converters adjust automatic fault sensing and switching network components isolate malfunctions in FM tube type UHF transmitters or exciters

It is interesting to note that these incumbents are among the most satisfied of all major job groups. Eighty-two percent of these incumbents find their job interesting, 100 percent perceive their job utilizes their talents and training at least fairly well, and 64 percent plan to reenlist.

VII. SENIOR RADIO REPAIRMEN (GRP663). This independent job type of 38 personnel is the only maintenance oriented major job group with substantial percentages of personnel from more than one specialty. While most of these incumbents hold DAFSC 304X0 (79 percent), 21 percent also hold DAFSC 304X4. The most distinguishing aspect of the job these respondents perform concerns the average number of tasks these incumbents perform (275), which is the highest average of all major job groups. These incumbents also perform the most difficult job, having a JDI of 25. Typical tasks performed by these incumbents include:

adjust high voltage power supply components adjust audio amplifier components align FM receivers adjust sideband demodulator or balanced mixer components adjust local oscillator components

These respondents maintain a large variety of radio equipment, (which is probably due to the fact that both the 304X0 and 304X4 specialties are represented in this major job group) some of which include the AN/TRC-97A, AN/FCC-17, AN/UCC-4, and AN/GSS-29. These incumbents are relatively senior (averaging 90 months TAFMS) and 78 percent find their job interesting.

VIII. JUNIOR GROUND RADIO MAINTENANCE PERSONNEL (GRP257). These incumbents perform a job similar to Ground Radio Maintenance Personnel described earlier, but only have half as much time in the service. Perhaps due to this lesser experience, they only perform one-fourth of the tasks of the above mentioned job group. These personnel also maintain the same types of radio equipment as the referred to major job group, such as the AN/GRC-171 and the AN/GRR-24, but the number of different types of equipment maintained is much lower. Interestingly, these incumbents are primarily located at Minuteman or Titan missile bases, and commonly perform such tasks as:

perform corrosion control
adjust squelch circuit components
perform PMIs on AM UHF transmitters or exciters
align AM receivers
clean maintenance work areas

These incumbents are also among the most dissatisfied of all major job groups, in which the limited job they perform probably is the main contributing factor. Overall, only 54 percent perceive their training is being utilized at least fairly well and only 32 percent plan to reenlist.

IX. COMMUNICATIONS-ELECTRONICS PERSONNEL (GRP434). These 11 personnel are differentiated from most other major job groups by the fact that they are performing a maintenance oriented job, but maintain very few types of radios or radio equipment. Instead these incumbents maintain recorders,

reproducers, or public address system components, many of which seem to be used in conjunction with various displays at different air force base locations, such as Wright-Patterson AFB OH. Typical tasks performed by these incumbents include:

isolate malfunctions in recorders or reproducers install or remove mounting hardware adjust audio amplifier components align speaker systems run test tapes

All of these personnel hold the 5- or 7-skill level, and only 18 percent are in their first enlistment. Job satisfaction data for these incumbents appears to be about average, with 73 percent perceiving their talents are utilized at least fairly well and 45 percent planning to reenlist.

X. QUALITY CONTROL PERSONNEL (GRP117). This is the first major job group with notable percentages of personnel from all three specialties represented. As the title indicates, the personnel in this cluster are responsible for performing the quality control functions at their assigned locations. Consequently, these incumbents spend very little job time performing radio maintenance or operations, but instead evaluate the various aspects of radio maintenance and operations. The tasks commonly performed by these incumbents are primarily evaluative in nature and include:

evaluate compliance with performance standards evaluate capability of equipment evaluate inspection reports or procedures schedule inspections prepare deficiency reports

Somewhat expectedly, these incumbents are fairly senior, averaging 170 months TAFMS and 73 percent hold the 7-skill level. A review of job satisfaction data for these incumbents reveals 72 percent perceive their job as interesting and 55 percent plan to reenlist.

XI. FIRSTLINE MAINTENANCE SUPERVISORS (GRP393). This cluster of 143 incumbents is also made up of personnel from all three specialties. These personnel appear to be the immediate supervisors at a variety of radio maintenance facilities, and seem to divide their time between supervisory and maintenance functions. Most of these respondents are either senior 5-skill level or 7-skill level personnel who either do not have enough seniority to perform only supervisory functions, or due to manning problems at the site, still must perform maintenance duties to insure optimum mission capability. Many of the tasks these incumbents perform are training related, such as:

conduct OJT
maintain training records, charts or graphs
conduct proficiency training
establish performance standards for subordinates
adjust automatic gain control (AGC) components

These personnel supervise an average of four people, and perform a fairly difficult job (JDI equals 18.9). These personnel appear to be fairly happy with their job, with 81 percent perceiving their training is utilized at least fairly well and 61 percent plan to reenlist.

XII. NCOICS, JOB CONTROL (GRP564). While a majority (73 percent) of the 41 respondents in this major job group hold DAFSC 304X4, a substantial percentage of personnel also hold DAFSC 304X0. These senior NCOs do not maintain, operate, or supervise the personnel who perform these functions on various types of radio equipment. Instead, these personnel are the supervisors of job control shops, whose purpose is to coordinate and schedule the various types of radio maintenance activities necessary to insure minimum mission degredation. These incumbents concentrate on either performing supervisory functions, compiling maintenance data, or monitoring maintenance activities, with tasks such as:

mainta.n status boards or charts
compile maintenance data
coordinate work activities with other units or agencies
coordinate cannibalization of equipment parts with appropriate
agencies
prepare APRs

being performed by fairly high percentages of these respondents. A review of job satisfaction indicators reveals that these respondents are extremely dissatisfied with their job, with only 34 percent perceiving their training is being utilized at least fairly well and only 38 percent planning to reenlist.

XIII. RADIO MAINTENANCE SUPERVISORS (GRP650). This fairly large cluster of 160 respondents also primarily hold DAFSC 304X4, but a notable percentage of DAFSC 304X6 and 304X0 personnel can also be found in this major job group. These incumbents are the middle level supervisors and managers at various ground radio, radio relay, and satellite communications sites located worldwide. Since these incumbents are middle level supervisors, they spend most of their job time performing supervisory functions and very little time on radio maintenance or operations. Typical tasks performed by these senior NCOs include:

interpret policies, procedures, or directives for subordinates prepare APRs determine requirements for space, personnel, equipment or supplies schedule leaves or passes plan work assignments

As stated earlier, the personnel performing this job are fairly senior, averaging 208 months TAFMS and having an average paygrade of E-6 or E-7. These respondents have somewhat above average job satisfaction indicators, with 80 percent finding their job interesting and 86 percent perceiving their talents are utilized at least fairly well.

XIV. RESIDENT TRAINING SUPERVISORS (GRP711). The ten personnel in this independent job type are among the most senior of all major job groups, averaging 219 months TAFMS and having an average paygrade of E-7. These incumbents are the course supervisors of many of the various

304X0, 304X4, and 304X6 courses taught at Keesler Technical Training Center. In many cases they are also conducting resident course classroom training. Typical tasks performed by these incumbents include:

evaluate training methods or techniques assign resident course instructors conduct resident course classroom training evaluate progress of students schedule leaves or passes

As expected, very few of these incumbents report maintaining any type of radio equipment, but instead supervise the personnel who instruct resident technical school students on the techniques and principles used to maintain various types of radio equipment. Job satisfaction data reveals these incumbents are fairly satisfied with their job, with 80 percent finding their job interesting and 40 percent planning to reenlist.

XV. TOOL CRIB SUPERVISORS (GRP442). Seventy-five percent of the 12 personnel in this independent job type are assigned overseas. These incumbents do not maintain radio equipment, but instead supervise the tool and supply functions at various radio maintenance facilities. Typical tasks performed by these incumbents include:

prepare requisitions for parts, tools, or supplies direct supply functions or tool crib operations maintain tool cribs research supply catalogs maintain historical records

Forty-one percent of these incumbents hold DAFSC 304X0, 34 percent hold DAFSC 304X4, and 17 percent hold DAFSC 304X6. These respondents are fairly senior, averaging 187 months TAFMS and having an average paygrade of E-6. A review of job satisfaction data reveals that while a somewhat lower than average percentage of these incumbents find their job interesting (66 percent), a fairly high percentage of personnel plan to reenlist (75 percent).

XVI. FIXED ENGINEERING AND INSTALLATION (E&I) PERSONNEL (GRP154). The 40 personnel in this independent job type are approximately equally divided between those holding DAFSC 304X0 or DAFSC 304X4. These incumbents do not maintain radio equipment, but instead are responsible for the installation and removal of fixed radio systems. Typical tasks performed by these personnel include:

install or remove fixed communications equipment install or remove mounting hardware assemble systems or subsystems from component parts install or remove communications or control towers lace cable assemblies or internal wiring

These incumbents are fairly junior, averaging only 36 months TAFMS and 80 percent are still in their first enlistment. Unfortunately, the job satisfaction data for these personnel are fairly poor, with only 27 percent perceiving their job utilizes their training at least fairly well, and only 39 percent planning to reenlist.

XVII. RESIDENT TECHNICAL SCHOOL INSTRUCTORS (GRP243). This independent job type of 77 personnel consists of substantial percentages of personnel from all three specialties. These incumbents are primarily stationed at Keesler AFB MS, and are responsible for conducting the various 304X0, 304X4, and 304X6 resident courses located there. Almost all of the tasks these incumbents perform are training related, and include:

score tests conduct resident course classroom training counsel trainees on training progress conduct remedial training procure training aids, space, or equipment

Twenty-two percent are in their first enlistment. An examination of job satisfaction data reveals these incumbents are fairly satisfied, with 76 percent finding their job interesting and 60 percent planning to reenlist.

XVIII. INSTRUCTORS AND MAINTENANCE PERSONNEL (GRP227). This independent job type of 19 personnel is primarily made up of 304X6 instructors, but notable percentages of DAFSC 304X0 and 304X4 personnel are also in this major job group. These incumbents perform a job very similar to Resident Technical School Instructors described earlier, in that both major job groups are responsible for conducting resident course classroom training. However, these incumbents differ from the previous major job group in that they perform approximately three times more tasks, most of which are maintenance oriented. Representative tasks performed by these respondents include:

conduct remedial training evaluate training methods or techniques read meters to determine equipment operation or signal quality conduct resident course classroom training configure patch panels for analog operations

These incumbents are fairly senior, averaging 129 months TAFMS and only 21 percent are in their first enlistment. Overall, this is one of the most satisfied of all major job groups, with 95 percent of these personnel perceiving their job utilizes their talents at least fairly well and 89 percent perceiving their training is being utilized at least fairly well.

XIX. JOB CONTROLLERS (GRP491). This independent job type of 58 personnel performs the lowest average number of tasks of all major job groups (12), most of which involve administrative functions. These incumbents perform the job control functions at various radio sites throughout the world. This job primarily involves monitoring the status of radio equipment and coordinating with the proper maintenance personnel to fix any equipment problems that may occur. Typical tasks performed by these respondents include:

maintain status boards and charts
compile maintenance data
prepare status reports
determine work priorities
coordinate work activities with other units or agencies

Fifty percent of these personnel hold DAFSC 304X4, and 37 percent hold DAFSC 304X0. A review of job satisfaction data reveals these incumbents are fairly dissatisfied with their job, with only 21 percent perceiving their training is utilized at least fairly well and only 48 percent perceiving their talents are utilized at least fairly well.

XX. PLANS AND SCHEDULING PERSONNEL (GRP481). This independent job type of  $\overline{14}$  personnel performs a job somewhat similar to Job Controllers described earlier, but seem to be more involved with scheduling the usage of and periodic inspections of radio equipment, rather than with the monitoring of radio equipment performance and the consequential scheduling of maintenance activities. Typical tasks performed by these incumbents include:

schedule inspections
prepare maintenance activity schedules
prepare maintenance schedules
schedule use of equipment
establish organizational policies, office instructions (OI),
or standard operating procedures (SOP)

Sixty-four percent of these incumbents hold DAFSC 304X4, and 43 percent are stationed overseas. These incumbents are fairly senior, averaging 134 months TAFMS, with none of them being in their first enlistment. These personnel have average job satisfaction indicators, with 72 percent finding their job interesting and 43 percent planning to reenlist.

XXI. SUPPLY PERSONNEL (GRP281). The ten personnel in this independent job type are responsible for maintaining the availability of spare parts and for the scheduling of various types of equipment for Precision Measurement Equipment Laboratory (PMEL) inspections. These incumbents do not report maintaining radio equipment, but instead spend almost half of their job time performing supply functions. Typical tasks performed by a majority of these incumbents include:

maintain bench stocks
coordinate local purchases with maintenance offices or base supply
coordinate equipment calibration PMEL
maintain equipment accountability records
direct supply functions or tool crib operations

Sixty percent of these incumbents hold DAFSC 30454, and 30 percent hold DAFSC 304X0. These incumbents have mixed job satisfaction indicators, with only 40 percent finding their job interesting, but 90 percent perceive their talents are being utilized at least fairly well or better.

XXII. LIMITED EXPERIENCE QUALITY CONTROL PERSONNEL (GRP464). These personnel perform a quality control job, but only perform half as many tasks (15 versus 38) as Quality Control Personnel described earlier. This lower average number of tasks performed is not due to these incumbent's lack of radio maintenance experience, but instead due to the fact that they have just assumed a quality control type job. The tasks most commonly performed by these NCOs are all quality control related, such as:

maintain technical order (TO) files prepare activity reports schedule inspections prepare evaluation reports evaluate compliance with performance standards

Seventy percent of these personnel hold DAFSC 304X4, with the remainder holding DAFSC 304X0. A majority of these incumbents are stationed overseas (60 percent), and these personnel have an average paygrade of E-6. While only 50 percent of these respondents find their job interesting, 80 percent plan to reenlist.

# Summary

A wide variety of jobs are performed by DAFSC 304X4 personnel. These jobs can be roughly divided into two categories. The first category would include all those 304X4 personnel performing primarily a ground radio installation or maintenance type of job, and encompasses 10 of the 22 major job groups identified. The differentiating factors among these 10 job groups appears to be either the mission performed, the equipment maintained, or average number of tasks performed.

The second category of 12 major job groups is primarily nontechnical in nature, and involves supervision, administration, or training rather than ground radio maintenance or installation functions. A minority of DAFSC 304X4 personnel are in this category, and the key differentiating factor among these jobs appears to be the differing amounts of job time spent performing supervisory, administrative, or training duties.

A review of job satisfaction data reveals that job satisfaction varies considerably between major job groups. E&I Personnel appear to be among the most satisfied; Fixed E&I Personnel are among the most dissatisfied. NCOICs, Job Control, Job Controllers, and Plans and Scheduling Personnel are among the most dissatisfied of all major job groups. This is primarily due to the fact that these personnel are performing an administrative type job rather than one involving ground radio maintenance. Management personnel need to be aware of these potential problem areas and try to find ways to correct the current situation.

TABLE 4

RELATIVE PERCENT THE SPENT ON DUTIES BY MAJOR JOB GRAUPS

|  | GROUND   |          | PUBLIC   |          | AERO      |          |          | JR GROUND   |
|--|----------|----------|----------|----------|-----------|----------|----------|-------------|
|  | RADIO    | ELEC     | ADDRESS  |          | STATION   | TITAN    | SF       | RADIO       |
|  | MAINT    | SEC      | EQUIP    | E&I      | & GLANT   | RADIO    | RADIO    | MAINT       |
|  | PERS     | PERS     | REP      | PERS     | TALK PERS | REP      | REP      | PERS        |
|  | (GRP336, | (GRP712, | (GRP359, | (GRP264, | (GRP186,  | (GRP330, | (GRP663, | (GRP257,    |
| DUTIES   | N=607)   | N=61)    | N=15)    | N=15)    | N=136)    | N=11)    | N=38)    | N=22)       |
| ORGANIZING AND PLANNING                                    | 7        | 2        | 7        | *        | 2         | 4        | 7        | 7           |
| PIRECTING AND IMPLEMENTING                                 | m        | 3        | 2        | .74      | 3         | 3        | 2        |             |
| INSPECTING AND EVALUATING                                  | -        |          | *        | 4¢       | 2         | *        | 2        | ÷           |
| TRAINING   | ٣        | e        |          | -        | 6         | ٣        | 7        | <b>+</b> ¢  |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS      | ٣        | 7        | -        | 7        | ٣         | 3        | -        | 4           |
| PERFORMING SUPPLY FUNCTIONS                                | ٣        | e        | 7        | *        | 3         | 4        | 7        | ~           |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS                   | <b>S</b> | 9        | \$       | 11       | 6         | 7        | <b>3</b> | 15          |
| PERFORMING SATELLITE UPERATION FUNCTIONS                   | *        | *        | *        | *        | -Jc       | *        | *        | *           |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS                   | 12       | 18       | 15       | 97       | 13        | 15       | 6        | 19          |
| MAINTAINING ANTENNA SYSTEMS                                | 7        | -        | 4c       | ٣        | 2         |          | ٣        | <b>-</b> t< |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF        |          |          |          |          |           |          |          |             |
| TRANSCEIVERS   | 18       | 26       | 20       | 19       | ∞         | 13       | 15       | 22          |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT PORTION OF    |          |          |          |          |           |          |          |             |
| TRANSCEIVERS   | 20       | *        | 11       | 12       | 12        | 23       | 15       | 15          |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND ASSOCIATED    |          |          |          |          |           |          |          |             |
| INTERFACE EQUIPMENT  | *        | *        | -tc      | *        | *         | *        | œ        | 4           |
| MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE |          |          |          |          |           |          |          |             |
| EQUIPMENT  | *        | *        | *        | ⊀¢       | 4         | *        | 4        | 40          |
| MAINTAINING COMPUNICATION OR CONTROL CONSOLES              | 4        | ÷¢       | 1        | ÷        | *         | +        | 44       | 7           |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT                   | 4        | œ        | 16       | 2        | -         | *        | 4        | -           |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO GRP EQUIPMENT | *        | *        | ψ¢       | *        | 14        | *        | *        | *           |
|  | *        | *        | *        | *        | *         | *        |          | *           |
| MAINTAINING TRACKING SYSTEMS                               | *        | *        | *        | *        | -tx       | -        | *        | *           |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS         | ÷c       | *        | *        | -        | *         | *        | 3        | *           |
| MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES          | 12       | 19       | •        | 9        | 15        | 15       | 20       | 7           |
| PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS           | 2        | *        | *        | 7        | *         | *        | 3        | *           |
| PERFORMING SUPPORT FUNCTIONS                               | 2        | S        | 7        | ÷        | æ         | S        | ٣        | 10          |
|  |          |          |          |          |           |          |          |             |

\*DENOTES LESS THAN ONE PERCENT

TABLE 5

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR JOB GROUPS (CONTINUED)

| DVT1ES   | COMM-<br>ELEC<br>PERS<br>(GRP4 34,          | QC<br>PERS<br>(GRP117,<br>N=121) | FIRSTLINE HAINT SUPVS (GR293, | NCOICs,<br>JOB<br>CONTROL<br>(GRP564, | RADIO<br>MAINT<br>SUPVs<br>(GRP650, | RES<br>TNG<br>SUPVS<br>(GRP711, | TOOL<br>CRIB<br>SUPVS<br>(GRP442, | FIXED<br>E&1<br>PERS<br>(GRP154,<br>N=40) |
|--|---|----------------------------------|-------------------------------|---------------------------------------|-------------------------------------|---------------------------------|-----------------------------------|---|
| ORGANIZING AND PLANNING DIRECTING AND IMPLEMENTING THOSECTING AND EVALUATING   | 5 3 4                                       | 15<br>31<br>31                   | 9<br>10<br>7                  | 23<br>23<br>12                        | 21<br>20<br>19                      | 17<br>21<br>15                  | 18                                | * 0 *                                     |
| PREPARING AND HAINTAINING FORMS, RECORDS, AND REPORTS PERFORMING SUPPLY FUNCTIONS BERFORMING EQUIPMENT OPERATION FUNCTIONS BERFORMING CONTINENT OPERATION FUNCTIONS  | m 4 w r ·                                   | 188 2 2 5                        | တာမှာမယ                       | 17<br>19<br>3                         | 13<br>7<br>1                        | 37<br>4 m *                     | 7<br>12<br>18<br>3                | <b>-1¢</b> -3¢ -3¢                        |
| PERFORMING GENERALIE OFFINION FUNCTIONS MAINTAINING ARTENNA SYSTEMS MAINTAINING RECEIVERS TO INCUME RECEIVE PORTION OF   | * 88 *                                      | * m *                            | * <b>5</b> ~                  | નેદ ત⊹ તેદ                            | * m t                               | * * *                           | * oc *                            | * 88 *                                    |
| TRANSCEIVERS HAINTAINING TRANSHITTERS TO INCLUDE TRANSHIT PORTION OF TRANSCEIVERS MAINTAINING UNITS EDECIDENCY MAINTAINING AND ACCOUNTS  | 3   | * *                              | 9                             | +x +∢                                 |                                     | + + <b>t</b>                    | ic 40                             | 0 ×                                       |
| INTERPRACE EQUIPMENT HARMFAING TELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE EQUIPMENT  | <b>7</b> *                                  | * +                              | m +                           | -k -                                  | <b>14</b> - 3                       | <b>4</b> x •                    | * ·                               |   |
| MAINTAINING COMMUNICATION OR CONTROL CONSOLES<br>MAINTAINING AUDIO OR FACSIMILE EQUIPMENT<br>MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO GRP EQUIPMENT<br>MAINTAINING MODEMS                                  | * 52 * *                                    | * * * *                          | ** ~ * *                      | < +< +< +< +< +<                      | લ નીય નીય નીય નીય                   | pe the top de                   | * * ~ * *                         | હેલ તેલ તેલ તેલ તેલ                       |
| MANTAINING TRACKING SYSTEMS MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS MAINTAINING COMMON OR MISCELLANBOUS SUBASSEMBLIES PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS PERFORMING SUPPORT FUNCTIONS | · + - 7 - 7 • • • • • • • • • • • • • • • • | ***                              | * * * * *                     | ****0                                 | ****                                | નેક નેક તેર નેક તેર             | **~~~                             | 35 * * *                                  |

\*DENOTES LESS THAN ONE PERCENT

TABLE 6

RELATIVE PERCENT TIME SPENT ON DUTIES BY MAJOR JOB GROUPS (CONTINUED)

|   | RES TECH      | INST AND    | IOB            | DIANC AND   |                | TIMITED EVD |
|---|---------------|-------------|----------------|-------------|----------------|-------------|
|   | INST          | PERS        | CONTROL        | SCHED       | SUPPLY         |             |
| 34463   | (GRP243,      | (GRP227,    | (GRP491,       | (GRP481,    | (GRP281, N-10) | (GRP464,    |
| 0011ES  | N=//          | (61=N       | ( 9C=N         | N=14)       | (01-N          | N-10)       |
| ORGANIZING AND PLANNING                                 | က             | 5           | 28             | 26          | <b>&amp;</b>   | 10          |
| DIRECTING AND IMPLEMENTING                              | 6             | 6           | 16             | 18          | 16             | 8           |
| INSPECTING AND EVALUATING                               | က             | 9           | 5              | 9           | 2              | 17          |
| TRAINING  | 69            | 35          | 5              | 9           | 7              | 7           |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS   | 2             | 3           | 38             | 30          | 6              | 67          |
| PERFORMING SUPPLY FUNCTIONS                             | 1             | က           | က              | 7           | 87             | ⋠           |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS                | *             | 11          | ÷¢             | <b>∞</b>    | က              | ⊰¢          |
| PERFORMING SATELLITE OPERATION FUNCTIONS                | <b>⊹</b> ¢    | *           | *              | ÷¢          | ⊹k             | <b>ને</b> ¢ |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS                | 7             | 7           | ⊰¢             | નુંદ        | 7              | નુદ         |
| MAINTAINING ANTENNA SYSTEMS                             | 4<            | <b>-</b> ∤¢ | 44             | નુંદ        | ÷¢             | ÷¢          |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION        |               |             |                |             |                |             |
| OF TRANSCEIVERS   | 1             | 9           | *              | ⊹¢          | 2              | ٩¢          |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT PORTION    |               |             |                |             |                |             |
| OF TRANSCEIVERS   | *             | 3           | *              | ⊀¢          | ÷c             | નેલ         |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND ASSOCIATED |               |             |                |             |                |             |
| INTERFACE EQUIPMENT                                     | 2             | 7           | ⊀              | -; <b>c</b> | *              | -}¢         |
| MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED        |               |             |                |             |                |             |
| INTERFACE EQUIPMENT                                     |               | က           | ⊰¢             | ÷<          | -}¢            | ⊰¢          |
| MAINTAINING COMMUNICATION OR CONTROL CONSOLES           | *             | ⊀(          | 40             | -}¢         | <b>-</b> ∤¢    | *           |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT                | ÷             | ⊀           | ⊀              | ⊰¢          | -}¢            | ⊰¢          |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO            |               |             |                |             |                |             |
| GROUP EQUIPMENT   | <b>-}&lt;</b> | <b>-</b> }¢ | <del>√</del> < | -}¢         | -}t            | ⊀           |
| MAINTAINING MODEMS                                      | ÷             | *           | ÷<             | ÷¢          | ₹¢             | *           |
| MAINTAINING TRACKING SYSTEMS                            | ⊹             | <b>⊀</b> <  | <b>-</b>  <    | 40          | -;¢            | <b>-</b> ;  |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS      | *             | *           | *              | ⊀           | ÷              | ⋠           |
| MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES       | *             | က           | -}¢            | નુંદ        | <b>-</b> ;x    | -¦¢         |
| PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS        | 2             | ⋆           | *              | ÷¢          | ÷(             | -;<         |
| PERFORMING SUPPORT FUNCTIONS                            | 4             |             | 7              | 2           | 7              | 7           |
|   |               |             |                |             |                |             |

\*DENOTES LESS THAN ONE PERCENT

TABLE 7
BACKGROUND INFORMATION FOR MAJOR JOB GROUPS

|  | GROUND<br>RADIO<br>MAINT<br>PERS | ELEC<br>SEC<br>PERS | PUBLIC<br>ADD<br>EQUIP<br>REP | E&I<br>PERS | AERO<br>STATION<br>& GIANT<br>TALK<br>PERS |              | SR<br>RADIO<br>REP | JR GROUND<br>RADIO<br>MAINT<br>PERS |
|--|----------------------------------|---------------------|-------------------------------|-------------|--|--------------|--------------------|-------------------------------------|
| AVERAGE NUMBER OF TASKS                      |                                  |                     | _                             |             |  |              |                    |                                     |
| PERFORMED:                                   | 125                              | 99                  | 65                            | 64          | 111  | 72           | 275                | 32                                  |
| JOB DIFFICULTY INDEX:                        | 16.4                             | 14.3                | 11.2                          | 10.6        | 15.9                                       | 12.0         | 25.0               | 6.5                                 |
| AVERAGE PAYGRADE: PERCENT LOCATED OVERSEAS:  | E-4<br>31%                       | E-3<br>95%          | E-4<br>33%                    | E-4<br>13%  | E-4<br>55%                                 | E-3,E-4<br>- | E-4,E-5<br>32%     | 5 E-3<br>23%                        |
| DAFSC  |                                  |                     |                               |             | ·  |              |                    |                                     |
| 30434  | 15%                              | _                   | 40%                           | 40%         | 7%   | 27%          | 3%                 | 32%                                 |
| 30454  | 68%                              | 72%                 | 53%                           | 40%         | 66%  | 73%          | 18%                | 68%                                 |
| 30474  | 16%                              | 26%                 | ~                             | 13%         | 24%  | -            | -                  | _                                   |
| 304X0  | 1%                               |                     | 7%                            | 7%          | 3%   | -            | 73%                | -                                   |
| 304X6  | -                                | -                   | -                             | -           | -  | -            | 6%                 | -                                   |
| OTHER  | -                                | 2%                  | -                             | -           | -  | -            | -                  | -                                   |
| AVERAGE NUMBER OF PERSONNEL                  |                                  |                     |                               |             |  |              |                    |                                     |
| SUPERVISED:                                  | 1                                | 1                   |                               | -           | 1  | 1            | 1                  | -                                   |
| AVERAGE MONTHS TAFMS:                        | 67                               | 91                  | 40                            | 48          | 79   | 37           | 90                 | 32                                  |
| PERCENT IN FIRST ENLISTMENT:                 | 52%                              | 16%                 | 80%                           | 67%         | 38%  | 73%          | 50%                | 81%                                 |
| PERCENT MAINTAINING THE FOLLOWING EQUIPMENT: |                                  |                     |                               |             |  |              |                    |                                     |
| <b>208</b> U-3                               | 6%                               | -                   | 6%                            | 4%          | 42%  | -            | 5%                 | 9%                                  |
| 20 <b>8</b> U-10                             | 5%                               | -                   | -                             | -           | 45%  | -            | <b>5%</b>          | 9%                                  |
| 310V-1                                       | <b>2%</b>                        | -                   | -                             | 7%          | 40%  | -            | 3%                 | 4%                                  |
| AN/FRC-153                                   | 41%                              | -                   | 60%                           | 20%         | 4%   | -            | 11%                | 23%                                 |
| UWM-2/2A                                     | 52%                              | 2%                  | 67%                           | 20%         | 4%   | -            | 8%                 | 18%                                 |
| R-390A                                       | 27%                              | 77%                 | 67%                           | -           | 30%  | -            | 5%                 | 18%                                 |
| AN/GRC-171                                   | 6 <b>8%</b>                      | 2%                  | 87%                           | 27%         | 4%   | -            | 8%                 | 41%                                 |
| AN/GRC-175                                   | 51%                              | -                   | 80%                           | 13%         | 3%   | -            | 11%                | 14%                                 |
| AN/GRR-23                                    | 42%                              | -                   | 67%                           | 13%         | 6%   | -            | 8%                 | 23%                                 |
| AN/GRR-24                                    | 65%                              | 21%                 | 80%                           | 13%         | 8%   | -            | 8%                 | 41%                                 |
| AN/GRR-25                                    | 31%                              | -                   | 53%                           | 13%         | 4%   | •            | 3%                 | 9%                                  |
| AN/GRT-21                                    | 51%                              | -                   | 80%                           | 20%         | 5%   | -            | 8%                 | 18%                                 |
| AN/GRT-22                                    | 66%                              | -                   | 80%                           | 20%         | 5 <b>%</b>                                 | -            | 8%                 | 46%                                 |
| AN/MRC-107                                   | 14%                              | -                   | -                             | 14%         | -  | •            | 3%                 | -                                   |
| AN/TSC-60(V) 1/2                             | 10%                              | -                   | -                             | 13%         | 2%   | -            | 3%                 | 5%                                  |
| AN/GRC-117                                   | -                                | -                   | -                             | -           | -  | 91%          | -                  | 5%                                  |
| DL-19W                                       | 14%                              | -                   | 40%                           | -           | 2%   | •            | 5%                 | 9%                                  |
| R-2174/R-390A                                | 12%                              | 48%                 | 27%                           | -           | 9%   | -            | •-                 | 14%                                 |

TABLE 8

BACKGROUND INFORMATION FOR MAJOR JOB GROUPS (CONTINUED)

|  | COMM-<br>ELEC<br>PERS | QC<br>PERS  | FIRSTLINE<br>MAINT<br>SUPVs | NCOICs,<br>JOB<br>CONTROL             | RADIO<br>MAINT<br>PERS | RES<br>TNG<br>SUPVs | TOOL<br>CRIB<br>SUPVs | FIXED<br>E&I<br>PERS |
|--|-----------------------|-------------|-----------------------------|---------------------------------------|------------------------|---------------------|-----------------------|----------------------|
| AVERAGE NUMBER OF TASKS                      |                       |             |                             |                                       |                        |                     |                       |                      |
| PERFORMED:                                   | 64                    | 38          | 164                         | 40                                    | 83                     | 50                  | 56                    | 17                   |
| JOB DIFFICULTY INDEX:                        | 9.8                   | 10.8        | 18.9                        | 10.3                                  | 14.0                   | 12.2                | 9.3                   | 2.9                  |
| AVERAGE PAYGRADE:                            | E-5                   | E-6         | E-5/E-6                     | E-6                                   | E-6/E-7                | E-7                 | E-6                   | E-3,E-4              |
| PERCENT LOCATED OVERSEAS:                    | 27%                   | 3 <b>8%</b> | 5 <b>8%</b>                 | 49%                                   | 48%                    | -                   | 75%                   | 22%                  |
| DAFSC  |                       |             |                             |                                       |                        |                     |                       |                      |
| 30434  | -                     | -           | 2%                          | -                                     | -                      | -                   | -                     | 7%                   |
| 30454  | 46%                   | 16%         | 11%                         | 15%                                   | 3%                     | 10%                 | 17%                   | 37%                  |
| 30474  | 54%                   | 49%         | 3 <b>8%</b>                 | 5 <b>8%</b>                           | 61%                    | 40%                 | 17%                   | 3%                   |
| 304X0  | -                     | 27%         | 44%                         | 25%                                   | 22%                    | 20%                 | 41%                   | 53%                  |
| 30 <b>4</b> X6                               | -                     | 6%          | 5%                          | 2%                                    | 10%                    | 20%                 | 17%                   | •                    |
| OTHER  | •                     | 2%          | -                           | -                                     | 4%                     | 10%                 | 8%                    | -                    |
| AVERAGE NUMBER OF PERSONNEL                  |                       |             |                             | · · · · · · · · · · · · · · · · · · · |                        |                     |                       |                      |
| SUPERVISED:                                  | -                     | 1           | 4                           | 3                                     | 6                      | 10                  | 3                     | -                    |
| AVERAGE MONTHS TAFMS:                        | 125                   | 170         | 149                         | 181                                   | 208                    | 219                 | 187                   | 36                   |
| PERCENT IN FIRST ENLISTMENT:                 | 18%                   | 5%          | 5%                          | 5 <b>%</b>                            | -                      | -                   | 8%                    | 10%                  |
| PERCENT MAINTAINING THE FOLLOWING EQUIPMENT: |                       |             |                             |                                       |                        |                     |                       |                      |
| 20 <b>8</b> U-3                              | -                     | 1%          | 3%                          | -                                     | 8%                     | -                   | -                     | 3%                   |
| 208U-10                                      | -                     | 1%          | 3%                          | -                                     | 6%                     | -                   | -                     | <b>3%</b>            |
| 310V-1                                       | -                     | -           | 10%                         | -                                     | 6%                     | -                   | -                     | -                    |
| AN/FRC-153                                   | 9%                    | 4%          | 25%                         | -                                     | 19%                    | -                   | 17%                   | -                    |
| KWM-2/2A                                     | 18%                   | 5%          | 26%                         | -                                     | 20%                    | -                   | 8%                    | 3%                   |
| R-390A                                       | -                     | 4%          | 12%                         | -                                     | 18%                    | 10%                 | 17%                   | -                    |
| AN/GRC-171                                   | -                     | 7%          | 30%                         | -                                     | 26%                    | •                   | 25%                   | 3%                   |
| AN/GRC-175                                   | -                     | 5%          | 18%                         | -                                     | 16%                    | -                   | 25%                   | 3%                   |
| AN/GRR-23                                    | -                     | 5%          | 14%                         | -                                     | 16%                    | -                   | 25%                   | 3%                   |
| AN/GRR-24                                    | -                     | 6%          | 30%                         | -                                     | 24%                    | -                   | 25%                   | 32                   |
| AN/GRR-25                                    | -                     | 3%          | 10%                         | -                                     | 13%                    | -                   | 8%                    | 32                   |
| AN/GRT-21                                    | -                     | 3%          | 17%                         | -                                     | 18%                    | -                   | 25%                   | 3%                   |
| AN/GRT-22                                    | -                     | 6%          | 30%                         | -                                     | 24%                    | -                   | 25%                   | 3%                   |
| AN/MRC-107                                   | -                     | -           | 3%                          | -                                     | 6%                     | -                   | -                     | -                    |
| AN/TSC-60(V) 1/2                             | -                     | -           | 4%                          | -                                     | 4%                     | -                   | -                     | -                    |
| AN/GRC-117                                   | -                     | 2%          | •                           | -                                     | -                      | -                   | -                     | -                    |
| DL-19W                                       | 9 <b>%</b>            | -           | 7%                          | -                                     | 9%                     | -                   | 8%                    | -                    |
| R-2174/R-390A                                | -                     | -           | 6%                          | -                                     | 6%                     | -                   | 7%                    | •                    |

TABLE 9
BACKGROUND INFOMATION FOR MAJOR JOB GROUPS (CONTINUED)

| AVERAGE NUMBER OF TASKS PERFORMED:  18 63 12 21 22 15 JOB DIFFICULTY INDEX: 7.6 12.3 5.5 7.2 4.4 6.1 AVERAGE PAYGRADE: E-5 E-5 E-4 E-5 E-4,E-5 E-6 PERCENT LOCATED OVERSEAS: 3% 11% 33% 43% 20% 60%  DAFSC   30434 5%  |                           | RES<br>TECH<br>SCHOOL<br>INST | INST<br>AND<br>MAINT<br>PERS | JOB<br>CONTROL | PLANS<br>AND<br>SCHED | SUPPLY<br>PERS | LIMITED EXP<br>QC PERS |
|--|---------------------------|-------------------------------|------------------------------|----------------|-----------------------|----------------|------------------------|
| PERFORMED:   | AVERAGE NUMBER OF TASKS   |                               |                              |                |                       |                |                        |
| AVERAGE PAYGRADE: E-5 E-5 E-4 E-5 E-4 E-5 E-4 E-5 PERCENT LOCATED OVERSEAS: 3% 11% 33% 43% 20% 60%  DAFSC  30434 5%  |                           | 18                            | 63                           | 12             | 21                    | 22             | 15                     |
| PERCENT LOCATED OVERSEAS: 3% 11% 33% 43% 20% 60%  DAFSC  30434 5%  | JOB DIFFICULTY INDEX:     | 7.6                           | 12.3                         | 5.5            | 7.2                   | 4.4            | 6.1                    |
| DAFSC  30434   | AVERAGE PAYGRADE:         | E-5                           | E-5                          | E-4            | E-5                   | E-4,E-5        | E-6                    |
| 30434 5%   | PERCENT LOCATED OVERSEAS: | 3%                            | 11%                          | 33%            | 43%                   | 20%            | 60%                    |
| 30454 23% 16% 43% 21% 60% 10% 30474 23% 5% 7% 43% - 60% 30% 30470 304X0 31% 31% 37% 28% 30% 30% 304X6 16% 48% 8% 7% 10%  | DAFSC                     |                               |                              |                |                       |                |                        |
| 30454 23% 16% 43% 21% 60% 10% 30474 23% 5% 7% 43% - 60% 30% 30470 304X0 31% 31% 37% 28% 30% 30% 304X6 16% 48% 8% 7% 10%  | 30434                     | 5%                            | -                            | -              | -                     | -              | -                      |
| 30474 23% 5% 7% 43% - 60% 304X0 337% 31% 37% 26% 30% 30% 30% 304X6 16% 48% 8% 7% 10% OTHER - 5% 11%  | 30454                     |                               | 16%                          | 43%            | 21%                   | 60%            | 10%                    |
| 304X6  | 30474                     |                               |                              |                | 43%                   | -              | 60%                    |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED: - 2 - 1 1 1 - AVERAGE MONTHS TAFMS: 120 129 76 134 101 164 PERCENT IN FIRST ENLISTMENT: 22% 21% 39% - 30% 10%  PERCENT MAINTAINING THE FOLLOWING EQUIPMENT:  208U-3 208U-10 310V-1 AN/FRC-153 - 3% - 20% - KWM-2/2A - 3% - 20% 10% A-390A - 2% - 10% - AN/GRC-171 - 3% - 30% - 30% - AN/GRC-175 - 2% AN/GRC-175 2% AN/GRC-23 3% - 30% - AN/GRC-24 3% AN/GRC-25 3% - 10% - AN/GRR-25 3% - 10% - AN/GRR-25 5% AN/GRT-21 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-21 5% AN/GRT-22 5% AN/GRT-22 5% AN/GRT-21 5% AN/GRT-21 5% AN/GRT-22 5% - 20% AN/GRT-21 5% AN/GRT-21 5% AN/GRT-21 5%  | 304X0                     | 33%                           | 31%                          | 37%            | 28%                   | 30%            | 30%                    |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED: - 2 - 1 1 AVERAGE MONTHS TAFMS: 120 129 76 134 101 164 PERCENT IN FIRST ENLISTMENT: 22% 21% 39% - 30% 10%  PERCENT MAINTAINING THE FOLLOWING EQUIPMENT:  208U-3  | 30 <b>4X</b> 6            | 16%                           | 48%                          | 8%             | 7%                    | 10%            |                        |
| SUPERVISED:  AVERAGE MONTHS TAFMS:  120 129 76 134 101 164 PERCENT IN FIRST ENLISTMENT:  22% 21% 39% - 30% 10%  PERCENT MAINTAINING THE FOLLOWING EQUIPMENT:  208U-3 208U-10 - 310V-1 - AN/FRC-153 - SWM-2/2A - SWM-2A - SWM-2 | OTHER                     | -                             | -                            | 5%             | 1%                    | -              | - ,                    |
| AVERAGE MONTHS TAFMS: 120 129 76 134 101 164 PERCENT IN FIRST ENLISTMENT: 22% 21% 39% - 30% 10%  PERCENT MAINTAINING THE FOLLOWING EQUIPMENT:  208U-3  |                           | _                             | 2                            |                | 1                     | 1              | _                      |
| PERCENT IN FIRST ENLISTMENT: 22% 21% 39% - 30% 10%  PERCENT MAINTAINING THE FOLLOWING EQUIPMENT:  208U-3   |                           | 120                           |                              | 76             |                       |                | 164                    |
| FOLLOWING EQUIPMENT:  208U-3 208U-10   |                           |                               |                              |                |                       |                |                        |
| 208U-10  |                           |                               |                              |                |                       |                |                        |
| 310V-1 AN/FRC-153  | 208U-3                    | -                             | -                            | -              | -                     | -              | -                      |
| AN/FRC-153   | 20 <b>8</b> U-10          | -                             | -                            | -              | -                     | -              | -                      |
| KWM-2/2A       -       -       3%       -       20%       10%         R-390A       -       -       -       2%       -       10%       -         AN/GRC-171       -       -       -       3%       -       -       -         AN/GRC-175       -       -       -       2%       -       -       -         AN/GRR-23       -       -       -       3%       -       -       -         AN/GRR-24       -       -       -       3%       -       30%       -         AN/GRT-25       -       -       -       3%       -       10%       -         AN/GRT-21       -       -       -       5%       -       -       -         AN/GRT-22       -       -       -       5%       -       -       -         AN/MRC-107       -       -       -       5%       -       -       -         AN/TSC-60(V) 1/2       1%       -       -       -       -       -       -       -         AN/GRC-117       -       -       -       -       -       -       -       -       -       -  | 310V-1                    | -                             | -                            | -              | -                     | -              | -                      |
| R-390A       -       -       2%       -       10%       -         AN/GRC-171       -       -       -       30%       -         AN/GRC-175       -       -       -       -       -         AN/GRR-23       -       -       -       -       -         AN/GRR-24       -       -       -       30%       -         AN/GRR-25       -       -       -       3%       -       10%       -         AN/GRT-21       -       -       -       5%       -       -       -       -         AN/GRT-22       -       -       -       5%       -       -       -       -         AN/MRC-107       -       -       -       5%       -       -       -       -         AN/TSC-60(V) 1/2       1%       -   | AN/FRC-153                | -                             | -                            |                | -                     |                | -                      |
| AN/GRC-171 3% - 30% - AN/GRC-175 2% AN/GRR-23 3% - 30%   |                           | -                             | -                            |                | ~                     |                | 10%                    |
| AN/GRC-175 2% AN/GRR-23 3%   |                           | -                             | -                            |                | -                     |                | -                      |
| AN/GRR-23 3% AN/GRR-24 3% - 30% - AN/GRR-25 3% - 10% - AN/GRT-21 5%  |                           | -                             | -                            |                | -                     |                | -                      |
| AN/GRR-24 3% - 30% - AN/GRR-25 3% - 10% - AN/GRT-21 5% AN/GRT-22 5% - 20% - AN/MRC-107 5%  |                           | -                             | -                            |                | •                     |                | •                      |
| AN/GRR-25 3% - 10% - AN/GRT-21 5%  |                           | -                             | -                            |                | ~                     |                | -                      |
| AN/GRT-21 5% AN/GRT-22 5% - 20% - AN/MRC-107 5%  |                           | -                             | -                            |                | -                     |                | <u>-</u>               |
| AN/GRT-22 5% - 20% - AN/MRC-107 5%   |                           | <u>-</u>                      | -                            | ა%<br>5%       | -                     | 10%            | -                      |
| AN/MRC-107 5% AN/TSC-60(V) 1/2 1% 10% 10%  |                           | -                             | -                            |                | -                     | 20%            | -                      |
| AN/TSC-60(V) 1/2 1% 10% - AN/GRC-117 2% DL-19W   |                           | -                             | _                            |                | -                     | 20%            | _                      |
| AN/GRC-117 2% DL-19W   |                           | 19                            | _                            |                | _                     | 109            | _                      |
| DL-19W   |                           | 1.6                           | _                            |                | _                     | 10%            | _                      |
|  |                           | -                             | -                            | - As           | -                     | -              | •                      |
|  |                           | _                             | _                            | -              | _                     | -              | -                      |

TABLE 10

JOB SATISFACTION AND RELATED DATA FOR MAJOR JOB GROUPS (PERCENT MEMBERS PERFORMING)

|                           | GROUND<br>RADIO<br>MAINT | ELEC<br>SEC | PUBLIC ADD<br>EQUIP | E&I  | AERO<br>STATION<br>& GIANT<br>TALK | TITAN<br>RADIO | SR<br>RADIO | JR GROUND<br>RADIO<br>MAINT |
|---------------------------|--------------------------|-------------|---------------------|------|------------------------------------|----------------|-------------|-----------------------------|
| I FIND MY JOB:            | PERS                     | PERS        | REP                 | PERS | PERS                               | REP            | REP         | PERS                        |
|                           |                          |             |                     |      |                                    |                |             |                             |
| DULL                      | 9                        | 10          | •                   | -    | 11                                 | -              | 11          | 9                           |
| SO-SO                     | 16                       | 26          | 20                  | 7    | 15                                 | 18             | 11          | 14                          |
| INTERESTING               | 75                       | 64          | 80                  | 93   | 74                                 | 82             | 78          | 77                          |
| MY JOB UTILIZES MY TALENT | <u>s</u> :               |             |                     |      |                                    |                |             |                             |
| NOT AT ALL TO VERY        |                          |             |                     |      |                                    |                |             |                             |
| LITT <b>LE</b>            | 17                       | 20          | 27                  | 27   | 15                                 | -              | 26          | 41                          |
| FAIRLY WELL OR BETTER     | 83                       | 80          | 73                  | 73   | 85                                 | 100            | 74          | 59                          |
| MY JOB UTILIZES MY TRAINI | NG:                      |             |                     |      |                                    |                |             |                             |
| NOT AT ALL TO VERY        |                          |             |                     |      |                                    |                |             |                             |
| LITTLE                    | 13                       | 15          | -                   | 27   | 18                                 | -              | 21          | 46                          |
| FAIRLY WELL OR BETTER     | 87                       | 85          | 100                 | 73   | 82                                 | 100            | 79          | 54                          |
| I PLAN TO REENLIST:       |                          |             |                     |      |                                    |                |             |                             |
| NO, PLANNING TO RETIRE    | 2                        | -           | -                   | _    | 6                                  | -              | 8           | •                           |
| NO OR PROBABLY NO         | 49                       | 53          | 53                  | 60   | 40                                 | 36             | 50          | 68                          |
| YES OR PROBABLY YES       | 48                       | 45          | 47                  | 40   | 53                                 | 64             | 39          | 32                          |

NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

TABLE 11

JOB SATISFACTION AND RELATED DATA FOR MAJOR JOB GROUPS (CONTINUED)
(PERCENT MEMBERS PERFORMING)

|                            | COMM-<br>ELEC | QC          | FIRST-<br>LINE<br>MAINT | NCOICs,<br>JOB | RADIO<br>MAINT | RES<br>TNG | TOOL<br>CRIB | FIXED<br>E&I |
|----------------------------|---------------|-------------|-------------------------|----------------|----------------|------------|--------------|--------------|
|                            | PERS          | PERS        | SUPVs                   | CONTROL        | SUPVs          | SUPVs      | SUPVs        | PERS         |
| I FIND MY JOB:             |               | <del></del> |                         |                |                |            |              |              |
| DULL                       | 9             | 11          | 12                      | 27             | 8              | -          | 17           | 13           |
| S0-S0                      | 27            | 14          | 9                       | 17             | 12             | 20         | 17           | 33           |
| INTERESTING                | 64            | 72          | 78                      | 56             | 80             | 80         | 66           | 51           |
| MY JOB UTILIZES MY TALENTS | <u>s</u> :    |             |                         |                |                |            |              |              |
| NOT AT ALL TO VERY         |               |             |                         |                |                |            |              |              |
| LITTLE                     | 27            | 16          | 18                      | 37             | 14             | 20         | 25           | 48           |
| FAIRLY WELL OR BETTER      | 73            | 82          | 81                      | 63             | 86             | 80         | 75           | 52           |
| PAIRLI WELL ON BEILEN      | 73            | 02          | 01                      | 05             | 00             | 00         | 15           | JŁ           |
| MY JOB UTILIZES MY TRAININ | <u>IG</u> :   |             |                         |                |                |            |              |              |
| NOT AT ALL TO VERY         |               |             |                         |                |                |            |              |              |
| LITTLE                     | 46            | 29          | 18                      | 66             | 22             | 20         | 33           | 73           |
| FAIRLY WELL OR BETTER      | 54            | 70          | 81                      | 34             | 78             | 70         | 67           | 27           |
| I PLAN TO REENLIST:        |               |             |                         |                |                |            |              |              |
| NO, PLANNING TO RETIRE     | 9             | 23          | 16                      | 27             | 36             | 30         | 25           | 3            |
| NO OR PROBABLY NO          | 46            | 22          | 22                      | 35             | 16             | 20         | -            | 58           |
| YES OR PROBABLY YES        | 45            | 55          | 61                      | 38             | 47             | 40         | 75           | 39           |
|                            |               |             |                         |                | • •            |            | . •          |              |

NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

TABLE 12

JOB SATISFACTION AND RELATED DATA FOR MAJOR JOB GROUPS (CONTINUED)

(PERCENT MEMBERS PERFORMING)

|  | RES<br>TECH<br>SCHOOL<br>INST | INST<br>AND<br>MAINT<br>PERS | JOB<br>CONTROL | PLANS<br>AND<br>SCHED | SUPPLY<br>PERS | LIMITED EXP    |
|--|-------------------------------|------------------------------|----------------|-----------------------|----------------|----------------|
| I FIND MY JOB:   | INDI                          | Lano                         | CONTROL        | BOILED                | 1210           | 40.1200        |
| DULL<br>SO-SO<br>INTERESTING                                 | 13<br>8<br>76                 | 5<br>16<br>79                | 24<br>17<br>59 | 14<br>14<br>72        | 10<br>50<br>40 | 20<br>30<br>50 |
| MY JOB UTILIZES MY TALENTS:                                  |                               |                              |                |                       |                |                |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | 20<br>79                      | 5<br>95                      | 52<br>48       | 21<br>79              | 10<br>90       | 40<br>60       |
| MY JOB UTILIZES MY TRAINING:                                 |                               |                              |                |                       |                |                |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | 21<br>96                      | 11<br>89                     | 79<br>21       | 57<br>43              | 40<br>60       | 40<br>60       |
| I PLAN TO REENLIST:  |                               |                              |                |                       |                |                |
| NO, PLANNING TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES | 10<br>29<br>60                | 11<br>37<br>52               | 3<br>52<br>45  | 7<br>50<br>43         | 10<br>50<br>40 | 20<br>80       |

NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

## ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups forms a part of each occupational analysis. This analysis should be used to help identify similarities and differences among skill level groups in the 304X4 specialty, and to note how the job performed by various skill level groups changes with increasing skill levels. This analysis can be particularly helpful by comparing the findings of the tasks and duties performed by 3-, 5-, and 7-skill level personnel with those described in various career ladder documents, such as AFR 39-1 Specialty Descriptions and the 304X4 Specialty Training Standard (STS).

The DAFSC analysis of the 304X4 specialty will discuss the duties and tasks common to the 3-, 5-, and 7-skill level groups, as well as highlighting the tasks which best differentiate the incumbents holding each skill level.

# Skill Level Comparisons

As in many car er ladders, the job performed by 3-skill level respondents is primarily maintenance oriented. These personnel spend approximately 90 percent of their job time performing maintenance related duties, with two duties, maintaining transmitters to include transmit portion of transceivers and maintaining receivers to include receive portion of transceivers making up approximately one-third of their job time (see Table 13). This is realistic with the 304X4 career ladder structure, since most 3-skill level personnel can be found in maintenance oriented job groups, such as Ground Radio Maintenance Personnel or Public Address Equipment Repairmen (Table 14). Table 15 lists the most common tasks performed by DAFSC 30434 personnel, as well as the corresponding percentage of 3-skill level personnel performing each Most of the tasks performed by more than 40 percent of 3-skill level personnel involve some aspect of routine radio maintenance, and include aligning AM receivers, adjusting automatic gain control (AGC) components, adjusting UHF power amplifier components, or inspecting the safety of equipment.

The job performed does not change very much at the 5-skill level, with Table 13 revealing that these incumbents also spend a majority of their job time performing technical radio maintenance functions. A review of the types of jobs performed by DAFSC 30454 personnel in Table 14 reveals these incumbents are primarily performing different types of radio maintenance oriented jobs, many of which also are made up of substantial percentages of 3-skill level personnel, such as Ground Radio Maintenance Personnel or Junior Ground Radio Maintenance Personnel. In addition to duty and job similarities between 3- and 5-skill level personnel, an examination of Table 16 reveals that the tasks performed by the highest percentages of DAFSC 30454 personnel are also performed by substantial percentages of 3-skill level personnel, and include performing corrosion control, adjusting squelch circuit components, and adjusting receive intermediate frequency (IF) amplifier components.

Even though the duties, tasks, and jobs performed by 3- and 5-skill level personnel are the same or similar, some differences between these two skill level groups can be found. The most apparent difference between the two skill level groups and one that can also be noted in the tasks which best differentiate these groups is the somewhat larger amount of job time spent by 5-skill level personnel performing supervisory duties (16 percent versus 6 percent). This trend is highlighted in Table 17, which lists the tasks which best differentiate 3- and 5-skill level personnel. Many of the tasks which best differentiate these two skill level groups are supervisory in nature, with tasks such as preparing APRs, conducting OJT, or supervising DAFSC 30434 personnel being performed by substantially higher percentages of 5-skill level personnel.

An examination of the duties and tasks performed by 7-skill level personnel tends to indicate that these personnel are the firstline supervisors at many ground radio maintenance facilities, and spend approximately one-half of their job time performing supervisory duties, with the remainder spent on administration or maintenance functions (Table 13). However, an examination of the most common tasks performed by DAFSC 30474 personnel (Table 18) reveals that supervisory tasks, such as determining work priorities, developing work methods or procedures, planning work assignments, or supervising DAFSC 30454 personnel are performed by fairly high percentages of 7-skill level personnel. This trend is reflected in Table 14, with a majority of 7-skill level personnel performing supervisory oriented jobs, such as Radio Maintenance Supervisors or Firstline Maintenance Supervisors.

When comparing the duties performed by DAFSC 30454 and 30474 personnel, the most apparent difference occurs with the amount of job time both groups spend performing supervisory and maintenance functions. Table 13 reveals 7-skill level personnel spend about 50 percent of their job time performing supervisory duties, while 5-skill level personnel report spending only 16 percent of their job time on the same duties. Also, 5-skill level personnel spend approximately twice as much job time performing maintenance related duties than DAFSC 30474 personnel. These duty differences can also be noted in Table 19, which lists the tasks which best differentiate 5- and 7-skill level personnel. Tasks involving radio maintenance, such as aligning AM receivers, constructing shop cables or test plugs, or adjusting automatic gain control (AGC) components are performed by substantially higher percentages of 5-skill level personnel, while supervisory tasks, such as preparing APRs, scheduling leaves or passes, or planning work assignments are performed by higher percentages of DAFSC 30474 personnel.

#### Summary

As skill levels increase, personnel in this specialty report spend more time on supervisory functions and less time performing maintenance duties, with 3-skill level personnel spending about 90 percent of their job time on maintenance duties and 7-skill level personnel spending only about 40 percent of their job time performing the same duties. Overall, the job performed by 3- and 5-skill level personnel are very similar, with the increased supervisory responsibilities of 5-skill personnel being the biggest discriminating factor between these two groups. The job performed by 5- and 7- skill level personnel is somewhat less similar, with DAFSC 30454 personnel performing a maintenance oriented job, and DAFSC 30474 personnel performing a job similar to firstline supervisors.

TABLE 13

RELATIVE PERCENT TIME SPENT ON DUTIES BY 304X4 SKILL LEVEL GROUPS

| DUTIES  | 3-SKILL<br>LEVEL<br>PERSONNEL<br>(N=177) | 5-SKILL<br>LEVEL<br>PERSONNEL<br>(N=917) | 7-SKILL<br>LEVEL<br>PERSONNEL<br>(N=524) |
|---|--|--|--|
| ORGANIZING AND PLANNING                       | 2  | 5  | 13                                       |
| DIRECTING AND IMPLEMENTING                    | 2  | 4  | 13                                       |
| INSPECTING AND EVALUATING                     | *  | 2  | 12                                       |
| TRAINING                                      | 2  | 5  | 11                                       |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND | ~  | J  |  |
| REPORTS                                       | 3  | 5  | 10                                       |
| PERFORMING SUPPLY FUNCTIONS                   | 2  | 4  | 5  |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS      | 9  | 6  | 3  |
| PERFORMING SATELLITE OPERATION FUNCTIONS      | *  | *  | *  |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS      | 16                                       | 12                                       | 7  |
| MAINTAINING ANTENNA SYSTEMS                   | 1  | 1  | *  |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVER     |  |  |  |
| PORTION OF TRANSCEIVERS                       | 17                                       | 14                                       | 7  |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT  |  |  |  |
| PORTION OF TRANSCEIVERS                       | 17                                       | 13                                       | 6  |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND  |  |  |  |
| ASSOCIATED INTERPACE EQUIPMENT                | *  | *  | *  |
| MAINTAINING TELETYPE MULTIPLEXERS AND         |  |  |  |
| ASSOCIATED INTERFACE EQUIPMENT                | *  | *  | *  |
| MAINTAINING COMMUNICATION OR CONTROL CONSOLES | 3  | 3  | 1  |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT      | 3  | 3  | 2  |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO  |  |  |  |
| GROUP EQUIPMENT                               | *  | 2  | *  |
| MAINTAINING MODEMS                            | *  | *  | *  |
| MAINTAINING TRACKING SYSTEMS                  | *  | *  | *  |
| MAINTAINING BASE AND INSTALLATION SECURITY    |  |  |  |
| SYSTEMS                                       | 1  | *  | *  |
| MAINTAINING COMMON OR MISCELLANEOUS           |  |  |  |
| SUBASSEMBLIES                                 | 9  | 10                                       | 4  |
| PERFORMING SITE INSTALLATION OR MOVING        |  |  |  |
| FUNCTIONS                                     | 3  | 3  | 1  |
| PERFORMING SUPPORT FUNCTIONS                  | 6  | 6  | 3  |

<sup>\*</sup>DENOTES LESS THAN ONE PERCENT

TABLE 14

DAFSC DISTRIBUTION ACROSS MAJOR JOB GROUPS

|  |       | DAFSC |       |        |  |  |
|--|-------|-------|-------|--------|--|--|
| MAJOR JOB GROUPS                       | 30434 | 30454 | 30474 | OTHER* |  |  |
| GROUND RADIO MAINTENANCE PERSONNEL     | 91    | 413   | 97    | 6      |  |  |
| ELECTRONIC SECURITY PERSONNEL          | -     | 44    | 17    | _      |  |  |
| PUBLIC ADDRESS EQUIPMENT PERSONNEL     | 6     | 8     | -     | 1      |  |  |
| ENGINEERING AND INSTALLATION PERSONNEL | 6     | 6     | 2     | 1      |  |  |
| AERONAUTICAL STATION AND GIANT TALK    |       |       |       |        |  |  |
| EQUIPMENT PERSONNEL                    | 10    | 90    | 33    | 3      |  |  |
| TITAN RADIO REPAIRMEN                  | 3     | 8     | -     | _      |  |  |
| SENIOR RADIO REPAIRMEN                 | 1     | 6     | -     | 31     |  |  |
| JUNIOR GROUND RADIO MAINTENANCE        |       |       |       |        |  |  |
| PERSONNEL                              | 7     | 15    | -     | -      |  |  |
| COMMUNICATIONS-ELECTRONICS PERSONNEL   | -     | 5     | 6     | -      |  |  |
| QUALITY CONTROL PERSONNEL              | -     | 19    | 59    | 46     |  |  |
| FIRSTLINE MAINTENANCE SUPERVISORS      | 3     | 16    | 56    | 73     |  |  |
| NCOICs, JOB CONTROL                    | -     | 6     | 24    | 11     |  |  |
| RADIO MAINTENANCE SUPERVISORS          | -     | 5     | 98    | 57     |  |  |
| RESIDENT TRAINING SUPERVISORS          | -     | 1     | 4     | 5      |  |  |
| TOOL CRIB SUPERVISORS                  | -     | 2     | 2     | 8      |  |  |
| FIXED E&I PERSONNEL                    | 3     | 15    | 1     | 21     |  |  |
| RESIDENT TECHNICAL SCHOOL INSTRUCTORS  | 4     | 18    | 18    | 37     |  |  |
| INSTRUCTORS AND MAINTENANCE PERSONNEL  | -     | 3     | 1     | 15     |  |  |
| JOB CONTROLLERS                        | -     | 25    | 4     | 29     |  |  |
| PLANS AND SCHEDULING PERSONNEL         | -     | 3     | 6     | 5      |  |  |
| SUPPLY PERSONNEL                       | -     | 6     | -     | 4      |  |  |
| LIMITED EXPERIENCE QC PERSONNEL        |       | 1     | 6     | 3      |  |  |
| NOT GROUPED                            | 43    | 202   | 90    | -      |  |  |
| TOTAL                                  | 177   | 917   | 524   |        |  |  |

\*NOTE: THE OTHER COLUMN DOES NOT ADD DUE TO THE FACT THAT 304X0 AND 304X6 PERSONNEL ARE INCLUDED HERE

TABLE 15

REPRESENTATIVE TASKS PERFORMED BY DAFSC 30434 AIRMEN

| TASKS        |  | PERCENT<br>MEMBERS<br>PERFORMING<br>(N=177) |
|--------------|--|---|
| G164         | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 78  |
| G165         |  |   |
|              | QUALITY  | 77  |
|              | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 73  |
|              | CLEAN MAINTENANCE WORK AREAS   | 72  |
| I 125        |  |   |
|              | MICROMINIATURE COMPONENTS USING SOLDERING METHODS  | 70  |
|              | ADJUST SQUELCH CIRCUIT COMPONENTS  | 67  |
|              | PERFORM CORROSION CONTROL  | 64  |
|              | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 62  |
| G156         | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,  |   |
|              | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 60  |
| K284         | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |   |
|              | COMPONENTS   | 59  |
| K291         | ALIGN AM RECEIVERS   | 58  |
| G162         | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS INSPECT SAFETY OF EQUIPMENT | 55  |
| L409         | PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS  | 54  |
| I 195        | INSPECT SAFETY OF EQUIPMENT  | 53  |
| L359         | ALIGN AM UHF TRANSMITTERS OR EXCITERS  | 51  |
|              | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER COMPONENTS   | 51  |
| K289         | ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RF AMPLIFIER COMPONENTS  | 51  |
| 1220         | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 49  |
| K303         | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS   | 49  |
| L353         | ADJUST TRANSMIT GAIN, AUTOMATIC LOAD, OR AUTOMATIC LEVELING CONTROL COMPONENTS   | 49  |
| <b>K</b> 272 | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS   | 48  |
| K334         |  | 40  |
|              | RECEIVERS  | 47  |
| E120         | MAKE ENTRIES ON MAINTENANCE FORMS  | 45  |
|              | ISOLATE MALFUNCTIONS IN UHF POWER AMPLIFIERS   | 44  |
|              | INSTALL OR REMOVE MOUNTING HARDWARE  | 44  |
| I 128        |  |   |
|              | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 44  |
| 11729        | ALIGN TRANSCEIVERS   | 44  |
|              | CRATE OR UNCRATE COMPONENTS OR MODULES   | 43  |
|              | ADJUST HIGH VOLTAGE POWER SUPPLY COMPONENTS  | 43  |
|              | ADJUST TRANSMITTER OR EXCITER INTERMEDIATE FREQUENCY (IF)  | . •   |
| ,            | AMPLIFIER COMPONENTS   | 42  |
| U692         |  | 42  |

# TABLE 16 REPRESENTATIVE TASKS PERFORMED BY DAFSC 30454 AIRMEN

| TASKS        |  | PERCENT<br>MEMBERS<br>PERFORMING<br>(N=917) |
|--------------|--|---|
| W836         | CLEAN MAINTENANCE WORK AREAS   | 74  |
| G165         | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 71  |
| G164         | · ·  | 68  |
|              | PERFORM CORROSION CONTROL  | 67  |
|              | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 66  |
| T219         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   | 00  |
|              | OTHER THAN SOLDERING   | 64  |
| 1191         | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 64  |
| G156         | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS, TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 59  |
| G162         | · · · · · · · · · · · · · · · · · · ·  | 59<br>59                                    |
| K284         | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |   |
|              | COMPONENTS   | 59  |
| K291         | ALIGN AM RECEIVERS   | 55  |
| K286         | ADJUST SQUELCH CIRCUIT COMPONENTS  | 55  |
| E120         | MAKE ENTRIES ON MAINTENANCE FORMS  | 54  |
| F141         | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN  | 54  |
| I 195        | ALIGN AM RECEIVERS ADJUST SQUELCH CIRCUIT COMPONENTS MAKE ENTRIES ON MAINTENANCE FORMS PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN INSPECT SAFETY OF EQUIPMENT REMOVE OR REPLACE MECHANICAL COMPONENTS ADJUST AUDIO AMPLIFIER COMPONENTS | 53  |
| 1220         | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 53  |
| U692         |  | 52  |
| K334         | PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AM RECEIVERS   | 51  |
| W0 16        | ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS  | 51<br>50                                    |
|              |  |   |
| I221<br>K289 |  | 49  |
| N209         | COMPONENTS   | 47  |
| D89          |  | 46  |
| -            | PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS  | 45  |
|              | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS   | 45  |
| K272         |  |   |
| 1353         |  | 43  |
| 1 ) ).)      | LEVELING CONTROL COMPONENTS  | 44  |
| 1224         |  | 44  |
| 1213         |  | 44  |
| 1271         | METHODS OTHER THAN SOLDERING   | 44  |
| 1350         | ALIGN AM UHF TRANSMITTERS OR EXCITERS  | 44  |
|              | PERFORM SAFETY INSPECTIONS   | 44  |
| K293         |  | 43  |
| L355         | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER COMPONENTS   |   |

TABLE 17

REPRESENTATIVE TASKS WHICH BEST DIFFERENTIATE DAFSC 30434

AND 30454 PERSONNEL

(PERCENT MEMBERS PERFORMING)

| TASKS   | DAFSC<br>30434<br>PERSONNEL<br>(N=177) | DAFSC<br>30454<br>PERSONNEL<br>(N=917) | DIFFERENCE |
|---|--|--|------------|
| ADJUST SQUELCH CIRCUIT COMPONENTS   | 67                                     | 55                                     | +12        |
| MAINTAIN STATUS BOARDS OR CHARTS ADJUST AUDIO AMPLIFIER COMPONENTS DETERMINE OJT TRAINING REQUIREMENTS ADJUST HIGH FREQUENCY (HF) MIXER COMPONENTS ISOLATE MALFUNCTIONS IN TUBE TYPE AM RECEIVERS | 22                                     | 32                                     | -10        |
|   | 42                                     | 52                                     | -10        |
|   | 2                                      | 13                                     | -11        |
|   | 17                                     | 28                                     | -11        |
| PERFORM PMIs ON LINE AMPLIFIERS MAINTAIN PUBLICATION FILES ISOLATE MALFUNCTIONS IN MAIN DISTRIBUTION FRAMES AND   | 19                                     | 30                                     | -11        |
|   | 18                                     | 29                                     | -11        |
|   | 11                                     | 23                                     | -12        |
| ASSOCIATED WIRING ISOLATE MALFUNCTIONS IN LINE AMPLIFIERS REVIEW TABLE OF ALLOWANCES (TA)   | 6                                      | 18                                     | -12        |
|   | 19                                     | 31                                     | -12        |
|   | 2                                      | 14                                     | -12        |
| DEVELOP WORK METHODS OR PROCEDURES PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS RESEARCH SUPPLY CATALOGS                                     | 10                                     | 23                                     | -13        |
|   | 29                                     | 42                                     | -13        |
|   | 6                                      | 20                                     | -14        |
|   | 17                                     | 31                                     | -14        |
| ISOLATE MALFUNCTIONS IN SYSTEMS TO SPECIFIC EQUIPMENT CONDUCT UPGRADE TRAINING COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED  | 24                                     | 40<br>21                               | -16<br>-18 |
| MATTERS SUPERVISE GROUND RADIO COMMUNICATIONS SPECIALISTS   | 6                                      | 25                                     | -19        |
| (AFSC 30454) PREPARE APRS COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 4                                      | 24                                     | -20        |
|   | 4                                      | 26                                     | -22        |
|   | 10                                     | 35                                     | -25        |
| DETERMINE WORK PRIORITIES SUPERVISE APPRENTICE GROUND RADIO COMMUNICATIONS  | 13                                     | 39                                     | -26        |
| SPECIALISTS (AFSC 30434)  DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL   | 6                                      | 33                                     | -27        |
| INFORMATION   | 9                                      | 38                                     | -29        |
| CONDUCT OJT   | 11                                     | 46                                     | -35        |

TABLE 18

REPRESENTATIVE TASKS PERFORMED BY DAFSC 30474 AIRMEN

| TASKS      |  | PERCENT<br>MEMBERS<br>PERFORMING<br>(N=524) |
|------------|--|---|
| A3         | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES  | 69  |
|            | PREPARE APRS   | 68  |
| A5         | DETERMINE WORK PRIORITIES  | 65  |
| B29        | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS   | 63  |
| D107       | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS   | 60  |
| B60        | WRITE CORRESPONDENCE   | 57  |
| D97        | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION  | 57  |
| <b>A</b> 7 |  | 57  |
| B45        | INTERPRET POLICIES. DIRECTIVES. OR PROCEDURES FOR SUBORDINATES   | 5 57  |
| A19        | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES PLAN WORK ASSIGNMENTS   | 54  |
| B53        | SUPERVISE GROUND RADIO COMMUNICATIONS SPECIALISTS (AFSC  | 54  |
| DO.        | 30454)   | 54<br>54                                    |
| D/40       | COUNSEL TRAINEES ON TRAINING PROGRESS INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES  | 54<br>53                                    |
| D89        | CONDUCT OJT  | 52  |
|            | MAVE ENTRIES ON MAINTENANCE FORMS  | 52<br>51                                    |
| C66        | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS   | 51  |
| A4         | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,  | 31  |
|            |  | 49  |
| F142       | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES   | 49  |
| E114       | OR SUPPLIES PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES MAINTAIN CORRESPONDENCE FILES MAINTAIN STATUS BOARDS OR CHARTS SCHEDULE LEAVES OR PASSES PERFORM SAFETY INSPECTIONS ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES INSPECT SAFETY OF EQUIPMENT EVALUATE INSPECTION REPORTS OR PROCEDURES EVALUATE CAPABILITY OF EQUIPMENT | 49  |
| E117       | MAINTAIN STATUS BOARDS OR CHARTS   | 49  |
| A25        | SCHEDULE LEAVES OR PASSES  | 49  |
| 1207       | PERFORM SAFETY INSPECTIONS   | 48  |
| A12        | ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES   | 48  |
| I 195      | INSPECT SAFETY OF EQUIPMENT  | 47  |
| C71        | EVALUATE INSPECTION REPORTS OR PROCEDURES  | 46  |
| C64        | EVALUATE CAPABILITY OF EQUIPMENT   | 46  |
| D9 1       | CONDUCT PROFICIENCY TRAINING   | 46  |
| G165       | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 45  |
|            | REVIEW TABLE OF ALLOWANCES (TA)  | 45  |
|            | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN  | 45  |
|            | RESEARCH SUPPLY CATALOGS   | 44  |
| C73        | EVALUATE MAINTENANCE OR USE OR WORKSPACE, EQUIPMENT, OR  | 77  |
|            | SUPPLIES   | 43  |

TABLE 19

REPRESENTATIVE TASKS WHICH BEST DIFFERENTIATE DAFSC 30454 AND 30474 PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS  | DAFSC<br>30454<br>PERSONNEL<br>(N=917) | DAFSC<br>30474<br>PERSONNEL<br>(N=524) | DIFFERENCE |
|--|--|--|------------|
| CLEAN MAINTENANCE WORK AREAS                                   | 74                                     | 37                                     | +37        |
| ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS                 | 66                                     | 36                                     | +30        |
| PERFORM TURN-ON OR TURN-OFF PROCEDURES                         | 68                                     | 40                                     | +28        |
| PERFORM CORROSION CONTROL                                      | 67                                     | 40                                     | +27        |
| CONSTRUCT SHOP CABLES OR TEST PLUGS                            | 64                                     | 37                                     | +27        |
| ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER           | • •                                    |  |            |
| COMPONENTS   | 59                                     | 32                                     | +27        |
| READ METERS TO DETERMINE EQUIPMENT OPERATION OR                | <b>Q</b> 2                             |  | _,         |
| SIGNAL QUALITY   | 71                                     | 45                                     | +26        |
| PERFORM PMIs ON AM RECEIVERS                                   | 51                                     | 26                                     | +25        |
| ADJUST SQUELCH CIRCUIT COMPONENTS                              | 55                                     | 30                                     | +25        |
| ALIGN AM RECEIVERS   | 55                                     | 31                                     | +24        |
| ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS                      | 50                                     | 28                                     | +22        |
| PERFORM PMIs ON AM VHF TRANSMITTERS OR EXCITERS                | 25                                     | 5                                      | +20        |
| PERFORM PMIs ON SIDEBAND RECEIVERS                             | 43                                     | 23                                     | +20        |
| SUPERVISE GROUND RADIO COMMUNICATIONS SPECIALISTS (AFSC 30454) | 24                                     | 54                                     | -30        |
| SUPERVISE GROUND RADIO COMMUNICATIONS TECHNICIANS              |  | <b>3</b> ·                             | 30         |
| (AFSC 30474)   | 4                                      | 34                                     | -30        |
| PLAN WORK ASSIGNMENTS  | 24                                     | 55                                     | -31        |
| REVIEW TABLE OF ALLOWANCES (TA)                                | 14                                     | 45                                     | -31        |
| MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS                   | 28                                     | 59                                     | -31        |
| ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS                      | 8                                      | 40                                     | -32        |
| ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES               | 16                                     | 48                                     | -32        |
| INDORSE AIRMAN PERFORMANCE REPORTS (APR)                       | 6                                      | 39                                     | -33        |
| DEVELOP WORK METHODS OR PROCEDURES                             | 23                                     | 57                                     | -34        |
| EVALUATE INSPECTION REPORTS OR PROCEDURES                      | 10                                     | 47                                     | -37        |
| SCHEDULE LEAVES OR PASSES                                      | ii                                     | 49                                     | -38        |
| MAINTAIN CORRESPONDENCE FILES                                  | 11                                     | 50                                     | -39        |
| WRITE CORRESPONDENCE   | 10                                     | 57                                     | -47        |
| PREPARE APRS   | 26                                     | 67                                     | -41        |

## ANALYSIS OF EXPERIENCE (TAFMS) GROUPS

In addition to the skill level analysis, survey respondents were also examined on the basis of months of Total Active Federal Military Service (TAFMS). This analysis helps to determine how jobs and job perceptions change over time, and can help describe the types of jobs and tasks junior personnel can look forward to performing in the future. Also included in this section is an in-depth analysis of 304X4 first-termers (1-48 months TAFMS), which examines the types of tasks performed, equipment maintained, test equipment utilized, and most common jobs performed by these first enlistment personnel.

Table 20 presents the relative time spent on duties by six different TAFMS groups, and reveals the different types of radio maintenance functions the personnel in each TAFMS group tend to concentrate on performing. As expected, no major deviations from the usual pattern of increasing time spent on supervisory duties with increasing months TAFMS were noted. Generally, junior airmen spend more time performing technical radio maintenance functions, such as performing general maintenance functions, maintaining receivers to include receive portion of transceivers, and maintaining transmitters to include transmit portion of transceivers, while senior 304X4 personnel spend increasing percentages of time on organizing and planning or training type duties.

# Job Satisfaction Analysis

Job satisfaction indices for personnel in first-term (1-48 months TAFMS), second-term (49-96 months TAFMS), and career (97+ months TAFMS) groups were also examined. Table 21 contains job interest, perceived utilization of talents or training, and reenlistment intentions along with the comparative sample for personnel from all related career ladders analyzed in 1980. (These comparative sample career ladders include ones from the 30XXX, 32XXX, and 42XXX career fields.) When compared to the comparative sample, 304X4 first enlistment personnel have several substantially higher job satisfaction indicators, particularly in the areas of job interest (74 versus 56 percent) and perceived utilization of talents (78 versus 63 percent). Overall, second enlistment personnel are slightly more satisfied with their job than comparative sample personnel, with 304X4 second-termers reporting slightly higher indices in all four job satisfaction catagories. Finally, 304X4 career personnel report job satisfaction indices very similar to career comparative sample personnel.

#### First Enlistment Personnel

Since various issues (primarily training) play such a key role for first enlistment personnel, these incumbents were additionally examined on the basis of the most common tasks and jobs performed and various types of background data (primarily equipment maintained and test equipment utilized). Table 22 lists representative tasks performed by relatively high percentages of 304X4 first-termers (1-48 months TAFMS). Generally, these most common

tasks involve some technical aspect of ground radio maintenance, such as aligning AM receivers, adjusting UHF receive RF amplifier components, adjusting squelch circuit components, and performing corrosion control.

Although the tasks listed in Table 22 are characteristic of most 304X4 first-term personnel, other functions performed by these incumbents vary depending on the job they perform. Figure 2 presents the distribution of 304X4 first-term personnel across job groups identified in the CAREER LADDER STRUCTURE section. As expected, a majority of 304X4 first enlistment personnel can be identified in the Ground Radio Maintenance Personnel cluster, with the Aeronautical Station and GIANT TALK Equipment Personnel cluster accounting for the next highest percentage of 304X4 first-termers. Tasks which are typically performed by first enlistment personnel in the major job groups revealed in Figure 2 include:

## Ground Radio Maintenance Personnel

perform PMIs on AM UHF transmitters or exciters adjust squelch circuit components align AM receivers

## Aeronautical Station and GIANT TALK Equipment Personnel

adjust URG status display readout components adjust high frequency (HF) power amplifier components adjust frequency shift keying (FSK) telephone components

## Electronic Security Personnel

adjust receive intermediate frequency (IF) amplifier components isolate malfunctions in tube type AM receivers perform PMIs on recorders and reproducers

## Engineering and Installation (E&I) Personnel

install or remove mounting hardware perform system modifications remove or replace mechanical subassemblies

## Public Address Equipment Repairmen

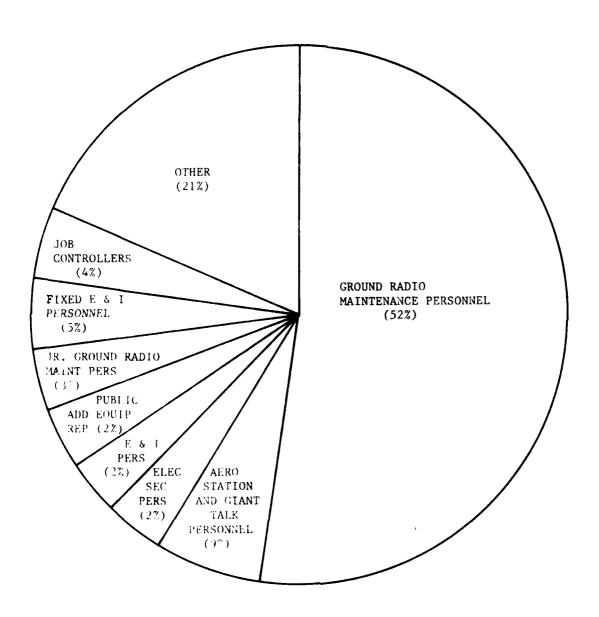
perform PMIs on recorders or reproducers set up or remove public address systems adjust automatic gain control (AGC) components

## Junior Ground Radio Maintenance Personnel

perform corrosion control perform PMIs on AM receivers perform PMIs on AM UHF transmitters or exciters

FIGURE 2

JOB GROUP DISTRIBUTION FOR 304X4 FIRST ENLISTMENT PERSONNEL



## Fixed E & I Personnel

install or remove fixed communication equipment install or remove communications or control towers lace cable assemblies or internal wiring

## Job Controllers

maintain status boards or charts coordinate work activities with other units or agencies compile maintenance data

In addition to the analysis of tasks, various types of ground radio equipment and test equipment utilized by 304X4 first enlistment personnel were also examined. Table 23 reveals some interesting trends, particularly concerning the types of radio equipment maintained by first-termers versus the same types of equipment maintained by second-term and career personnel. Overall, a higher percentage of 304X4 first-termers maintain the most common types of ground radio systems than either 304X4 second enlistment or career personnel. This same trend can also be noted with the test equipment utilized, although this trend is not as great as with the radio systems maintained (see Table 23). This data indicates that first-termers in the 304X4 specialty are the primary maintenance personnel in the career ladder, and training personnel need to insure that 304X4 personnel graduating from resident technical school are fully capable for performing a ground radio maintenance job.

TABLE 20

RELATIVE PERCENT TIME SPENT ON DUTIES BY 304X4 TAFMS GROUPS

| DUTIES                              | 1-48<br>MOS<br>(N=605) | 49-96<br>MOS<br>(N=354) | 97-<br>144<br>MOS<br>(N=230) | 145-<br>192<br>MOS<br>(N=186) | 193-<br>240<br>MOS<br>(N=174) | 241+<br>MOS<br>(N=66) |
|-------------------------------------|------------------------|-------------------------|------------------------------|-------------------------------|-------------------------------|-----------------------|
| ORGANIZING AND PLANNING             | 2                      | 5                       | 8                            | 12                            | 16                            | 18                    |
| DIRECTING AND IMPLEMENTING          | 2                      | 5                       | 9                            | 11                            | 15                            | 16                    |
| INSPECTING AND EVALUATING           | *                      | 3                       | 6                            | 11                            | 15                            | 14                    |
| TRAINING                            | 2                      | 6                       | 9                            | 12                            | 11                            | 13                    |
| PREPARING AND MAINTAINING FORMS,    |                        |                         |                              |                               |                               |                       |
| RECORDS, AND REPORTS                | 5                      | 5                       | 7                            | 9                             | 11                            | 11                    |
| PERFORMING SUPPLY FUNCTIONS         | 3                      | 4                       | 5                            | 6                             | 5                             | 6                     |
| PERFORMING EQUIPMENT OPERATION      |                        |                         |                              |                               |                               |                       |
| FUNCTIONS                           | 8                      | 6                       | 4                            | 4                             | 2                             | 2                     |
| PERFORMING SATELLITE OPERATION      |                        |                         |                              |                               |                               |                       |
| FUNCTIONS                           | *                      | *                       | *                            | *                             | *                             | *                     |
| PERFORMING GENERAL MAINTENANCE      |                        |                         |                              |                               |                               |                       |
| FUNCTIONS                           | 14                     | 12                      | 10                           | 8                             | 5                             | 4                     |
| MAINTAINING ANTENNA SYSTEMS         | 1                      | 1                       | *                            | 1                             | *                             | *                     |
| MAINTAINING RECEIVERS TO INCLUDE    |                        |                         |                              |                               |                               |                       |
| RECEIVE PORTION OF TRANSCEIVERS     | 16                     | 14                      | 10                           | 7                             | 5                             | 4                     |
| MAINTAINING TRANSMITTERS TO INCLUDE |                        |                         |                              |                               |                               |                       |
| TRANSMIT PORTION OF TRANSCEIVERS    | 16                     | 11                      | 9                            | 6                             | 5                             | 3                     |
| MAINTAINING VOICE FREQUENCY         |                        |                         |                              |                               |                               |                       |
| MULTIPLEXERS AND ASSOCIATED         |                        |                         |                              |                               |                               |                       |
| INTERFACE EQUIPMENT                 | *                      | *                       | *                            | *                             | *                             | *                     |
| MAINTAINING TELETYPE MULTIPLEXERS   |                        |                         |                              |                               |                               |                       |
| AND ASSOCIATED INTERFACE EQUIPMENT  | *                      | *                       | *                            | *                             | *                             | *                     |
| MAINTAINING COMMUNICATION OR        |                        |                         |                              |                               |                               |                       |
| CONTROL CONSOLES                    | 4                      | 2                       | 2                            | 1                             | *                             | *                     |
| MAINTAINING AUDIO OR FACSIMILE      |                        |                         |                              |                               |                               |                       |
| EQUIPMENT                           | 3                      | 3                       | 3                            | 3                             | 1                             | 1                     |
| MAINTAINING SCOPE CONTROL OR        |                        |                         |                              |                               |                               |                       |
| UNIVERSAL RADIO GROUP EQUIPMENT     | 1                      | 2                       | 2                            | *                             | *                             | *                     |
| MAINTAINING MODEMS                  | *                      | *                       | *                            | *                             | *                             | 2                     |
| MAINTAINING TRACKING SYSTEMS        | *                      | *                       | *                            | *                             | *                             | *                     |
| MAINTAINING BASE AND INSTALLATION   |                        |                         |                              |                               |                               |                       |
| SECURITY SYSTEMS                    | *                      | *                       | *                            | *                             | *                             | *                     |
| MAINTAINING COMMON OR MISCELLANEOUS |                        |                         |                              |                               |                               |                       |
| SUBASSEMBLIES                       | 10                     | 10                      | 8                            | 5                             | 3                             | 2                     |
| PERFORMING SITE INSTALLATION OR     |                        |                         |                              |                               |                               |                       |
| MOVING FUNCTIONS                    | 3                      | 2                       | 2                            | 1                             | *                             | *                     |
| PERFORMING SUPPORT FUNCTIONS        | 6                      | 5                       | 4                            | 3                             | 3                             | 3                     |

<sup>\*</sup>DENOTES LESS THAN ONE PERCENT

JOB SATISFACTION AND RELATED DATA FOR 304X4 FIRST-TERM (1-48 MONTHS TAFMS), SECOND-TERM (49-96 MONTHS TAFMS), AND CAREER (97+ MONTHS TAFMS) AND COMPARATIVE SAMPLE PERSONNEL (PERCENT MEMBERS RESPONDING)

|   | MONTHS TAFMS     |                                   |                  |                                 |                  |                                   |  |
|---|------------------|-----------------------------------|------------------|---------------------------------|------------------|-----------------------------------|--|
|   |                  | 1-48                              | 4                | 19-96                           |                  | 97+                               |  |
| I FIND MY JOB:  | 304X4<br>(N=605) | 1980 COMP*<br>SAMPLE<br>(N=1,374) | 304X4<br>(N=354) | 1980 COMP*<br>SAMPLE<br>(N=853) | 304X4<br>(N=156) | 1980 COMP*<br>SAMPLE<br>(N=1,426) |  |
|   |                  |                                   |                  |                                 |                  |                                   |  |
| DULL  | 9                | 24                                | 13               | 17                              | 13               | 14                                |  |
| SO-SO   | 17               | 20                                | 21               | 22                              | 16               | 16                                |  |
| INTERESTING   | 74               | 56                                | 65               | 61                              | 70               | 69                                |  |
| MY JOB UTILIZES MY TALEN                              | <u>TS</u> :      |                                   |                  |                                 |                  |                                   |  |
| NOT AT ALL TO VERY<br>LITTLE<br>FAIRLY WELL OR BETTER | 22<br>78         | 37<br>63                          | 24<br>76         | 31<br>69                        | 22<br>77         | 24<br>76                          |  |
| MY JOB UTILIZES MY TRAIN                              | ING:             |                                   |                  |                                 |                  |                                   |  |
| NOT AT ALL TO VERY                                    |                  |                                   |                  |                                 |                  |                                   |  |
| LITTLE  | 23               | 30                                | 24               | 28                              | 27               | 25                                |  |
| FAIRLY WELL OR BETTER                                 | 76               | 69                                | 75               | 72                              | 72               | 74                                |  |
| I PLAN TO REENLIST:                                   |                  |                                   |                  |                                 |                  |                                   |  |
| NO, PLANNING TO                                       |                  |                                   |                  |                                 |                  |                                   |  |
| RETIRE  | 1                | -                                 | 1                | -                               | 20               | <b>-</b>                          |  |
| NO OR PROBABLY NO                                     | 62               | 66                                | 49               | 51                              | 17               | 31                                |  |
| YES OR PROBABLY YES                                   | 36               | 33                                | 49               | 48                              | 62               | 68                                |  |

<sup>\*</sup>INCLUDES PERSONNEL IN AFSCs 30XXX, 32XXX, AND 42XXX
NOTE: COLUMNS MAY NOT ADD UP TO 100 PERCENT DUE TO "NO RESPONSE"

TABLE 22

REPRESENTATIVE TASKS PERFORMED BY 304X4 AIRMEN WITH 1-48 MONTHS TAFMS (N=605)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
|       | QUALITY  | 75                               |
| G164  | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 72                               |
|       | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 70                               |
| 1206  | PERFORM CORROSION CONTROL  | 67                               |
|       | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN   |                                  |
|       | MICROMINIATURE COMPONENTS USING SOLDERING METHODS  | 67                               |
| I219  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   |                                  |
|       | OTHER THAN SOLDERING   | 64                               |
| I 191 | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 64                               |
| K286  | ADJUST SQUELCH CIRCUIT COMPONENTS  | 62                               |
| G156  | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS   |                                  |
|       | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 60                               |
| K284  | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |                                  |
|       | COMPONENTS   | 59                               |
| G162  | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT   | 59                               |
| K291  | ALIGN AM RECEIVERS   | 58                               |
| L409  | PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS  | 52                               |
| K289  | ALIGN AM RECEIVERS PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RF AMPLIFIER COMPONENTS     | 51                               |
| K334  | PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMIs) ON AM  | <u> </u>                         |
|       | RECEIVERS  | 51                               |
| I 195 | INSPECT SAFETY OF EQUIPMENT  | 51                               |
|       | ADJUST AUDIO AMPLIFIER COMPONENTS  | 50                               |
| L359  |  | 50                               |
|       | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 50                               |
|       | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER COMPONENTS   | 49                               |
| I218  |  |                                  |
|       | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 49                               |
| L353  | ADJUST TRANSMIT GAIN, AUTOMATIC LOAD, OR AUTOMATIC   |                                  |
|       | LEVELING CONTROL COMPONENTS  | 48                               |
| E120  | MAKE ENTRIES ON MAINTENANCE FORMS  | 47                               |
| K303  | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS   | 47                               |
| L348  | ADJUST HIGH VOLTAGE POWER SUPPLY COMPONENTS  | 46                               |
| K272  | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS ALIGN TRANSCEIVERS  | 46                               |
| U729  | ALIGN TRANSCEIVERS   | 46                               |
| K276  | ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN REMOVE OR REPLACE MECHANICAL SURASSEMBLIES | 45                               |
| F141  | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN  | 45                               |
|       | REMOVE ON RELIGION SECRETARION CONTROLLING   |                                  |
|       | ISOLATE MALFUNCTIONS IN UHF POWER AMPLIFIERS   | 44                               |
|       |  | 44                               |
| L408  | PERFORM PMIs ON AM OR SIDEBAND HF TRANSMITTERS OR EXCITERS   | 44                               |

TABLE 23

BACKGROUND INFORMATION FOR DAFSC 304X4 FIRST-TERM, SECOND-TERM, AND CAREER PERSONNEL

| · · · · · · · · · · · · · · · · · · ·                              | 1-48 MOS<br>TAFMS<br>PERSONNEL<br>(N=605) | 49-96 MOS<br>TAFMS<br>PERSONNEL<br>(N=354) | 97+ MOS<br>TAFMS<br>PERSONNEL<br>(N=656) |
|--|---|--|--|
| AVERAGE NUMBER OF TASKS PERFORMED:                                 | 84  | 101  | 92                                       |
| AVERAGE NUMBER OF PERSONS SUPERVISED:                              | -   | 1  | 3  |
| PERCENT LOCATED OVERSEAS:  | 23%                                       | 45%  | 39%                                      |
| PERCENT MAINTAINING EQUIPMENT UTILIZING MICROPROCESSOR TECHNOLOGY: | 17%                                       | 28%  | 23%                                      |
| PERCENT MAINTAINING THE FOLLOWING RADIO EQUIPMENT:                 |   |  |  |
| AN/GRC-171 VHF/UHF   | 50%                                       | 34%  | 30%                                      |
| AN/GRR-24 VHF/UHF  | 47%                                       | 38%  | 30%                                      |
| AN/GRT-22 VHF/UHF  | 47%                                       | 35 <b>%</b>                                | 29%                                      |
| AN/GRT-21 VHF/UHF  | 37%                                       | 23%  | 22%                                      |
| AN/GRC-175 UHF/UHF   | 36%                                       | 22%  | 21%                                      |
| KWM-2/2A HF/SSB/ISB  | <b>35%</b>                                | 29%  | 24%                                      |
| AN/GRR-23 VHF/UHF  | 30%                                       | 22%  | 19%                                      |
| AN/FRC-153 HF/SSB/ISB  | 29%                                       | 23%  | 20%                                      |
| R-390A HF/SSB/ISB  | 23%                                       | 27%  | 20%                                      |
| AN/GRR-25 VHF/UHF  | 23%                                       | 12%  | 14%                                      |
| AN/GRA-53/54 UHF/VHF   | 12%                                       | 11%  | 12%                                      |
| DL-19W<br>R-2174/R-390A  | 11%<br>10%                                | 8 <b>%</b><br>12 <b>%</b>                  | 8%<br>7%                                 |
| TYPES OF TEST EQUIPMENT UTILIZED:                                  |   |  |  |
| MULTIMETERS  | 93%                                       | 91%  | 73%                                      |
| OSCILLOSCOPES  | 91%                                       | 90%  | 74%                                      |
| RF SIGNAL GENERATORS   | 88%                                       | 86%  | 69%                                      |
| AUDIO FREQUENCY SIGNAL GENERATORS                                  | 86%                                       | 72%  | 81%                                      |
| VOLTAGE MEASURING EQUIPMENT  | 77%                                       | 76%  | 60%                                      |
| DISTORTION ANALYZERS   | 77%                                       | 79%  | 62%                                      |
| FREQUENCY MEASURING SETS   | 77%                                       | 77%  | 61%                                      |
| POWER SUPPLIES   | 72 <b>%</b>                               | 71%  | 60%                                      |
| TUBE TESTERS   | 70%                                       | 68%  | 54%                                      |
| POWER METERS VSWR METERS   | 67 <b>%</b><br>61 <b>%</b>                | 63%<br>56%                                 | 64%                                      |
| HIGH VOLTAGE PROBES  | 49%                                       | 46%  | 50%<br>3 <b>6%</b>                       |
| SPECTRUM ANALYZERS   | 46%                                       | 51%  | 42%                                      |
| SEMICONDUCTOR TESTERS  | 41%                                       | 51%  | 42%                                      |
| POWER AMPLIFIERS   | 40%                                       | 35%  | 29%                                      |
| FLUTTER METERS   | 32%                                       | 32%  | 27%                                      |

## COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data for the 304X4 career ladder were compared to AFR 39-1 Specialty Descriptions, dated 31 October 1979 (for DAFSCs 30414, 30434, 30454, and 30474). These descriptions are intended to give a broad overview of the duties and tasks required to be performed by the various skill level personnel. Overall, the 3-, 5-, and 7-skill level descriptions were found to provide a clear, concise overview of the major duties and tasks performed by 304X4 incumbents.

#### ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

A comparison was made between the tasks performed and the background data for the DAFSC 30454 personnel who were assigned within the CONUS versus those who were assigned to overseas locations. This analysis is primarily designed to determine what technical aspects of ground radio maintenance are different between CONUS and overseas locations. This section can be useful to management and training personnel by highlighting the task, equipment, and various other background data differences between CONUS and overseas locations.

Overall, the jobs and tasks performed by these two groups of personnel are very similar, with the technical aspects of ground radio maintenance making up a majority of their job time. Some task differences can be found in Table 24, however; Table 24 reveals that a number of tasks related to ground radio equipment maintenance, such as isolating malfunctions in tube type AM receivers, performing PMIs on facsimile equipment, or electrically aligning recorders or reproducers are performed by slightly higher percentages of overseas incumbents.

Table 25 provides various background data for both DAFSC 30454 CONUS and overseas respondents, and highlights some additional similarities and differences between these two groups. DAFSC 30454 overseas personnel are more senior (72 months versus 58 months TAFMS) and perform a higher average number of tasks (106 versus 89) than CONUS respondents. When examining the equipment maintained by both groups, the AN/GRC-171 and AN/GRC-175 are maintained by substantially higher percentages of CONUS personnel, while the 208U-3 and R-390A are maintained by slightly higher percentages of overseas incumbents. A review of the job satisfaction data presented in Table 25 reveals that a slightly lower percentage of overseas personnel find their job interesting (64 versus 70 percent) while a slightly higher percentage plans to reenlist (54 versus 45 percent).

TABLE 24

REPRESENTATIVE TASKS WHICH BEST DIFFERENTIATE DAFSC 30454 CONUS AND OVERSEAS PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS   | CONUS PERSONNEL (N=574) | OVERSEAS<br>PERSONNEL<br>(N=342) | DIFFERENCE |
|---|-------------------------|----------------------------------|------------|
| ALIGN TRANSCEIVERS  | 45                      | 35                               | +10        |
| CONFIGURE PATCH PANELS FOR RADIO FREQUENCY  |                         |                                  |            |
| (RF) OPERATIONS   | 19                      | 30                               | -11        |
| ISOLATE MALFUNCTIONS IN TUBE TYPE HF MIXERS   | 15                      | 26                               | -11        |
| ISOLATE MALFUNCTIONS IN SOLID STATE SIDEBAND  |                         |                                  |            |
| RECEIVERS   | 15                      | 26                               | -11        |
| ALIGN SIDEBAND RECEIVERS  | 39                      | 50                               | -11        |
| ADJUST AMPLITUDE OR LINE EQUALIZER COMPONENTS   | 20                      | 32                               | -12        |
| PERFORM PMIs ON RECORDERS OR REPRODUCERS  | 29                      | 41                               | -12        |
| ISOLATE MALFUNCTIONS IN TUBE TYPE AM DETECTORS  | 15                      | 27                               | -12        |
| ADJUST HIGH FREQUENCY (HF) MIXER COMPONENTS   | 24                      | 36                               | -12        |
| ISOLATE MALFUNCTIONS IN SOLID STATE AGCs  | 36                      | 48                               | -12        |
| REMOVE OR REPLACE MECHANICAL COMPONENTS   | 48                      | 61                               | -13        |
| ISOLATE MALFUNCTIONS IN PATCH PANELS  | 30                      | 43                               | -13        |
| ADJUST GENERAL PURPOSE POWER SUPPLY COMPONENTS  | 23                      | 36                               | -13        |
| PREPARE REQUISITIONS FOR TOOLS, PARTS, OR SUPPLIES  | 37                      | 50                               | -13        |
| SECURE CLASSIFIED MATERIALS   | 9                       | 22                               | -13        |
| ADJUST AUDIO AMPLIFIER COMPONENTS   | 47                      | 60                               | -13        |
| ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS   | 24                      | 38                               | -14        |
| ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS   | 45                      | 59                               | -14        |
| ISOLATE MALFUNCTIONS IN-HF SOLID STATE RECEIVE  |                         |                                  |            |
| RF AMPLIFIERS   | 18                      | 33                               | -15        |
| ISOLATE MALFUNCTIONS IN FACSIMILE EQUIPMENT   | 5                       | 20                               | -15        |
| PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN   |                         | 63                               | -15        |
| ADJUST FACSIMILE EQUIPMENT COMPONENTS   | 4                       | 20                               | -16        |
| PERFORM PMIs ON FACSIMILE EQUIPMENT   | 5                       | 21                               | -16        |
| REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICROMINIATURE COMPONENTS USING METHODS OTHER THAN |                         |                                  |            |
| SOLDERING   | 34                      | 50                               | -16        |
| ISOLATE MALFUNCTIONS IN HF TUBE TYPE RECEIVE RF   | 25                      | 52                               | -17        |
| AMPLIFIERS  | 35<br>44                | 52<br>61                         | -17<br>-17 |
| PAINT EQUIPMENT OR FACILITIES ISOLATE MALFUNCTIONS IN TUBE TYPE AM RECEIVERS                          | 44<br>24                | 41                               | -17<br>-17 |
| ISOLATE MALFUNCTIONS IN TUBE TYPE RECEIVERS   | 24                      | 41                               | -17        |
| AMPLIFIERS  | 25                      | 42                               | -17        |
| ISOLATE MALFUNCTIONS IN TUBE TYPE AGCs  | 22                      | 39                               | -17        |

JOB SATISFACTION AND BACKGROUND INFORMATION FOR DAFSC 30454 CONUS AND OVERSEAS GROUPS

|   | CONUS PERSONNEL (N=574) | OVERSEAS<br>PERSONNEL<br>(N=342) |
|---|-------------------------|----------------------------------|
| AVERAGE NUMBER OF TASKS PERFORMED:                                | 89                      | 106                              |
| AVERAGE MONTHS TAFMS:   | 58                      | 72                               |
| PERCENT FINDING THEIR JOB INTERESTING:                            | 70%                     | 64%                              |
| PERCENT PERCEIVING THEIR TALENTS ARE UTILIZED AT LEAST            |                         |                                  |
| FAIRLY WELL:  | 76%                     | 73%                              |
| PERCENT PERCEIVING THEIR TRAINING IS UTILIZED AT LEAST            |                         |                                  |
| FAIRLY WELL:  | 75%                     | 76%                              |
| PERCENT PLANNING TO REENLIST:                                     | 45%                     | 54%                              |
| PERCENT PRESENTLY ON A CONUS ISOLATED/OVERSEAS REMOTE ASSIGNMENT: | 5%                      | 12%                              |
| PERCENT MAINTAINING EQUIPMENT USING MICROPROCESSOR TECHNOLOGY:    | 18%                     | 29%                              |
| PERCENT WORKING IN THE FOLLOWING AREAS:                           |                         |                                  |
| CONTROL TOWER   | 16%                     | 15%                              |
| MAINTENANCE TEAMS   | 11%                     | 11%                              |
| MISSILE RADIO WORKCENTER  | 9%                      | 2%                               |
| RECEIVER SITE (FIXED)   | 21%                     | 24%                              |
| TRANSCEIVER SITE (FIXED)  | 8%                      | 16%                              |
| TRANSMITTER SITE (FIXED)  | 25%                     | 20%                              |
| PERCENT MAINTAINING THE FOLLOWING HF/SSB/ISB EQUIPMENT:           |                         |                                  |
| 51S-1   | 5%                      | 15%                              |
| 2 <b>08U-3</b>  | 6%                      | 15%                              |
| FRC-153   | 28%                     | 2 <b>3%</b>                      |
| KWM-2/2A  | 33 <b>%</b>             | 32%                              |
| R-390A  | 20%                     | 33%                              |
| PERCENT MAINTAINING THE FOLLOWING VHF/UHF EQUIPMENT:              |                         |                                  |
| AN/GRC-171  | 45%                     | 32%                              |
| AN/GRC-175  | 33%                     | 21%                              |
| AN/GRR-23   | 28%                     | 23%                              |
| AN/GRR-24   | 42%                     | 37%                              |
| AN/GRR-25   | 21%                     | 13%                              |
| AN/GRT-21   | 33%                     | 26%                              |
| AN/GRT-22   | 42%                     | 34%                              |

## ANALYSIS OF MAJOR COMMAND DIFFERENCES

An analysis of the tasks and duties performed by first enlistment (1-48 months TAFMS) MAJCOM groups can provide additional insight to management and training personnel as to the different training requirements for various MAJCOM personnel. In many specialties, the jobs performed by first-term personnel varies little across MAJCOMs; however, this is not the case with the 304X4 specialty. The five largest users of 304X4 personnel (AFCC, ATC, ESC, TAC, and MAC) were examined, and all five MAJCOMs had personnel performing different tasks or maintaining different ground radio systems. In other words, the jobs performed by first enlistment personnel in the 304X4 specialty does vary depending upon the MAJCOM assigned.

Given below are brief narrative job descriptions concerning the five MAJCOMs mentioned above. In addition, four tables at the end of this section provide various types of task and background data for each of the five MAJCOMs, and can be extremely useful when comparing first enlistment MAJCOM personnel with each other. For an overall view of how the jobs vary among MAJCOM groups, Table 26 reveals the relative percent of job time spent performing various duties. For example, Table 26 reveals ATC personnel spend 36 percent of their time performing training type functions, while ESC first-termers spend 12 percent of their time performing equipment operation functions. Table 27 reveals more specific differences between first enlistment MAJCOM groups by listing the tasks which best differentiate MAJCOM groups. For example, mobility or solid state tasks differentiate TAC first-termers, with higher percentages of these incumbents performing these types of tasks than other MAJCOM groups. Table 28 reveals various types of background differences, such as equipment maintained, work area, or average number of tasks performed for the MAJCOM groups. Table 28 reveals that 40 percent of ESC personnel work at a receiver site, while 14 percent of TAC first-termers are working at a mobile transmitter unit. Finally, Table 29 provides various types of job satisfaction data for first-term MAJCOM personnel, such as job interest, reenlistment intentions, etc. Based on Table 29 it appears that overall, ATC personnel are the most satisfied and TAC personnel are the least satisfied with their job.

#### ATC

The 10 first enlistment personnel assigned to this MAJCOM are conducting various aspects of resident course classroom training, with 70 percent possessing the "T" prefix. As expected, these incumbents spend a large amount of job time performing training type tasks (36 percent), which in addition are the types of tasks which best differentiate these incumbents (see Table 27). Examples of these differentiating tasks include scoring tests, evaluating progress of students, and counseling trainees on training progress. Table 28 reveals that all of these incumbents are stationed in the CONUS, and fairly low percentages of these first-termers report maintaining any type of ground radio equipment. A review of job satisfaction indicators reveals that these first enlistment personnel are among the most satisfied, with 80 percent finding their job interesting and 50 percent planning to reenlist.

## TAC

The 57 first enlistment personnel assigned to this MAJCOM are primarily working in tactical communications units or Combat Communications Groups. These personnel are responsible for setting up and maintaining the mobile ground radios and related equipment associated with these types of units. Table 27 reveals that the tasks which best differentiate these incumbents are primarily mobility in nature, and include levelling shelters or vans, constructing facilities to support field activities, and installing or removing cabling between site vans. Some of the types of equipment maintained by these incumbents include the KWM-2/2A, AN/GRC-171, AN/GRR-24, AN/GRT-21, and AN/TSC-60(V) 1/2 (Table 28). Finally, Table 29 reveals that these incumbents are somewhat dissatisfied with their job, with only 68 percent finding their job interesting and only 28 percent planning to reenlist. These low job satisfaction indicators are probably due to the fact that these incumbents, being associated with mobile communications units, spend a lot of time TDY. In addition, when they are not TDY participating in an exercise, they do not have much of a job to perform.

## ESC

The 15 first-termers assigned to this command spend 23 percent of their job time maintaining receivers, which is a higher percentage than all other MAJCOM groups. In addition, ESC personnel spend less than one percent of their time maintaining transmitters, which is substantially less time than other MAJCOM groups. The primary mission of respondents involves monitoring communications and determining the source of the communication. Consequently, these incumbents maintain a different type of a receiver, the AN/FLR-9, which is only utilized by ESC personnel. Most of the differentiating tasks performed by these incumbents involve security or receiver maintenance, such as establishing secure voice links, performing PMIs on FM receivers, or setting up encoding or decoding equipment. A review of job satisfaction data reveals these incumbents are also fairly dissatisfied, with only 66 percent finding their job interesting and only 27 percent planning to reenlist.

## AFCC

As expected, a majority of 304X4 first-termers are assigned to this MAJCOM, with these incumbents spending the highest percentages of job time maintaining receivers or transmitters. While these incumbents maintain a number of different ground radio systems, the tasks which best differentiate these first-termers involve air traffic control radio systems. Examples of tasks which best differentiate these personnel include performing PMIs on air traffic control consoles, adjusting the console components, or adjusting the console light gun components. Table 28 reveals that AFCC first-termers perform the highest average number of tasks (87), are located in a variety of work areas (i.e., control towers, fixed receiver sites, etc.), and maintain a variety of HF/SSB/ISB, VHF/UHF, and weather equipment. A review of job satisfaction data reveals these personnel are fairly satisfied with their job, with 75 percent finding their job interesting and 40 percent planning to reenlist.

## MAC

A small group of first enlistment personnel (23) reported being assigned to this MAJCOM. Table 26 reveals these incumbents spend 30 percent of their job time maintaining receivers and transmitters, and Table 28 reveals these personnel maintain a variety of ground radio equipment. The tasks which best distinguish these incumbents from other first-termers are those which involve intercoms, recorders, or reproducers, such as electrically aligning recorders or reproducers, isolating malfunctions in intercom systems, or isolating malfunctions in hotline assemblies. MAC first-termers appear to be fairly satisfied with their job, with 82 percent finding their job interesting and 83 percent perceiving their talents are being utilized at least fairly well.

## Summary

The jobs performed by 304X4 first enlistment personnel can vary considerably depending on the MAJCOM assigned. Five of the biggest users of 304X4 personnel (ATC, TAC, ESC, AFCC, and MAC) were examined, and all five MAJCOM groups were found to be performing distinguishing tasks and in some cases maintaining different equipment. ATC first-termers seem to be responsible for various aspects of resident course classroom training. personnel maintain the mobile ground radio equipment found in tactical communications units and Combat Communications Groups. ESC first-termers maintain receivers used to detect and monitor communications. AFCC first enlistment personnel maintain a wide variety of ground radio equipment, but tasks involving air traffic control systems best differentiate these personnel. MAC personnel seem to be different due to the maintenance they perform on intercoms, hotlines, recorders, and reproducers. Overall, ATC personnel are the most satisfied, TAC and ESC first-termers the least satisfied, and AFCC and MAC personnel falling somewhere in between.

TABLE 26

RELATIVE PERCENT TIME SPENT ON DUTIES BY FIRST-TERM MAJOR COMMAND GROUPS

| DUTIES  | ATC<br>(N=10) | TAC<br>(N=57) | ESC<br>(N=15) | AFCC<br>(N=444) | MAC<br>(N=23) |
|---|---------------|---------------|---------------|-----------------|---------------|
| ORGANIZING AND PLANNING                       | 1             | 1             | 1             | 3               | 7             |
| DIRECTING AND IMPLEMENTING                    | 10            | 3             | *             | 2               | 2             |
| INSPECTING AND EVALUATING                     | 4             | *             | *             | *               | *             |
| TRAINING                                      | 36            | 3             | *             | 2               | 3             |
| PREPARING AND MAINTAINING FORMS, RECORDS,     |               |               |               |                 |               |
| AND REPORTS                                   | 2             | 4             | 1             | 5               | 4             |
| PERFORMING SUPPLY FUNCTIONS                   | 2             | 3             | 3             | 3               | 4             |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS      | 12            | 8             | 12            | 7               | 8             |
| PERFORMING SATELLITE OPERATION FUNCTIONS      | *             | *             | *             | *               | *             |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS      | 6             | 13            | 19            | 13              | 13            |
| MAINTAINING ANTENNA SYSTEMS                   | *             | 3             | *             | 1               | 3             |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE      |               |               |               |                 |               |
| PORTION OF TRANSCEIVERS                       | 6             | 20            | 23            | 16              | 14            |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT  |               |               |               |                 |               |
| PORTION OF TRANSCEIVERS                       | 8             | 20            | *             | 16              | 16            |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND  |               |               |               |                 |               |
| ASSOCIATED INTERFACE EQUIPMENT                | *             | *             | *             | *               | 1             |
| MAINTAINING TELETYPE MULTIPLEXERS AND         |               |               |               |                 |               |
| ASSOCIATED INTERFACE EQUIPMENT                | *             | *             | *             | *               | *             |
| MAINTAINING COMMUNICATION OR CONTROL CONSOLES | 4             | *             | *             | 4               | 1             |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT      | 2             | *             | 6             | 4               | *             |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO  |               |               |               |                 |               |
| GROUP EQUIPMENT                               | *             | *             | *             | 1               | 3             |
| MAINTAINING MODEMS                            | *             | *             | *             | *               | *             |
| MAINTAINING TRACKING SYSTEMS                  | *             | *             | *             | *               | *             |
| MAINTAINING BASE AND INSTALLATION SECURITY    |               |               |               |                 |               |
| SYSTEMS                                       | *             | *             | *             | *               | *             |
| MAINTAINING COMMON OR MISCELLANEOUS           |               |               |               |                 |               |
| SUBASSEMBLIES                                 | 4             | 10            | 20            | 10              | 9             |
| PERFORMING SITE INSTALLATION OR MOVING        |               |               |               |                 |               |
| FUNCTIONS                                     | *             | 4             | 2             | 3               | 2             |
| PERFORMING SUPPORT FUNCTIONS                  | 3             | 8             | 11            | 6               | 10            |
|   |               |               |               |                 |               |

<sup>\*</sup>DENOTES LESS THAN ONE PERCENT

TABLE 27

REPRESENTATIVE TASKS WHICH BEST DIFFERENTIATE FIRST-TERM MAJOR COMMAND GROUPS (PERCENT MEMBERS PERFORMING)

| TASKS  | ATC      | TAC    | ESC    | AFCC   | MAC |
|--|----------|--------|--------|--------|-----|
| D86 ADMINISTER TESTS D93 CONDUCT RESIDENT COURSE CLASSROOM TRAINING                                  | 70<br>60 | 5      | 4      | 2 2    | -   |
| D96 COUNSEL TRAINEES ON TRAINING PROGRESS  | 50       | 9      | 4      | 7      | -   |
| D105 EVALUATE PROGRESS OF STUDENTS   | 70<br>70 | 5<br>2 | 4<br>4 | 4<br>2 | 3   |
| D109 SCORE TESTS   | 70       | 2      | 4      | 2      | -   |
| K303 ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS  | 20       | 63     | 46     | 47     | 53  |
| V816 EMPLACE OR ANCHOR EQUIPMENT VANS OR SHELTERS  | -        | 26     | 4      | 7      | -   |
| V818 INSTALL OR REMOVE CABLING BETWEEN SITE VANS   | -        | 32     | -      | 6      | -   |
| V829 LEVEL SHELTERS OR VANS  | -        | 28     | 4      | 6      | -   |
| W838 CONSTRUCT FACILITIES TO SUPPORT FIELD ACTIVITIES  | -        | 21     | 9      | 5      | -   |
| W859 PERFORM SITE SECURITY DUTIES  | -        | 40     | 9      | 19     | 20  |
| G153 ESTABLISH SECURE VOICE LINKS  | -        | 8      | 30     | 1      | -   |
| G167 SET UP ENCODING OR DECODING EQUIPMENT   | 10       | 5      | 30     | 6      | 9   |
| K335 PERFORM PMIs ON FM RECEIVERS  | -        | 32     | 57     | 11     | 27  |
| K336 PERFORM PMIs ON SIDEBAND RECEIVERS  | 10       | 32     | 61     | 43     | 13  |
| L414 PERFORM PMIs ON FM VHF TRANSMITTERS OR EXCITERS   | -        | 21     | 52     | 8      | -   |
| O481 ADJUST AIR TRAFFIC CONTROL CONSOLE COMPONENTS O482 ADJUST AIR TRAFFIC CONTROL CONSOLE LIGHT GUN | 30       | 4      | 4      | 38     | -   |
| COMPONENTS 0483 ADJUST AIR TRAFFIC CONTROL CONSOLE RECEIVER  | 30       | 5      | 13     | 38     | -   |
| CONTROL CIRCUIT COMPONENTS   | 30       | 2      | 4      | 36     | -   |
| 0495 ADJUST MICROPHONE AMPLIFIER CIRCUIT COMPONENTS  | 20       | 4      | 4      | 30     | 7   |
| 0504 ISOLATE MALFUNCTIONS IN ATC CONSOLES  | 30       | 2      | 4      | 34     | 4   |
| 0523 PERFORM PMIs ON ATC CONSOLES  | 10       | -      | -      | 28     | -   |
| P540 ADJUST RECORDER OR REPRODUCER SUBASSEMBLIES OR  |          |        |        |        |     |
| COMPONENTS   | 20       | 11     | 9      | 37     | 53  |
| P541 ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS   | 30       | 9      | ģ      | 30     | 53  |
| P543 ISOLATE MALFUNCTIONS IN HOTLINE ASSEMBLIES  | 10       | 2      | -      | 4      | 20  |
| P544 ISOLATE MALFUNCTIONS IN INTERCOM SYSTEMS  | 10       | 2      | 4      | 13     | 27  |
| P547 MECHANICALLY ALIGN RECORDERS OR REPRODUCERS   | 20       | 7      | 4      | 32     | 47  |
| P550 PERFORM PMIs ON INTERCOM SYSTEMS  | 10       | 2      | 4      | 7      | 33  |

TABLE 28

BACKGROUND INFORMATION FOR FIRST-TERM MAJOR COMMAND PERSONNEL

|   | ATC | TAC | AFCC | MAC | ESC |
|---|-----|-----|------|-----|-----|
| AVERAGE NUMBER OF TASKS PERFORMED:                      | 39  | 79  | 87   | 73  | 63  |
| PERCENT WITH "T" DUTY AFSC PREFIX:                      | 70% | -   | -    | -   | -   |
| PERCENT LOCATED OVERSEAS:                               | -   | 11% | 21%  | 22% | 87% |
| PERCENT MAINTAINING EQUIPMENT WHICH USES MICROPROCESSOR |     |     |      |     |     |
| TECHNOLOGY:   | 20% | 26% | 16%  | 4%  | 20% |
| PERCENT WORKING AT THE FOLLOWING AREAS:                 |     |     |      |     |     |
| CONTROL TOWER   | -   | -   | 21%  | 4%  | _   |
| MAINTENANCE TEAMS                                       | -   | 16% | 11%  | 30% | 33% |
| MISSILE RADIO WORKCENTER                                | -   | -   | 13%  | 4%  | -   |
| RECEIVER SITE (FIXED)                                   | 10% | 23% | 24%  | 4%  | 40% |
| TRAINING UNIT (TECH SCHOOL)                             | 40% | -   | 1%   | -   | -   |
| TRANSCEIVER SITE (MOBILE)                               | -   | 18% | 6%   | 4%  | -   |
| TRANSMITTER SITE (FIXED)                                | 30% | 23% | 28%  | 9%  | -   |
| TRANSMITTER SITE (MOBILE)                               | ••  | 14% | 2%   | 4%  | -   |
| PERCENT MAINTAINING THE FOLLOWING TYPES OF EQUIPMENT:   |     |     |      |     |     |
| HF/SSB/ISB EQUIPMENT                                    |     |     |      |     |     |
| 618-T1  | -   | 26% | 3%   | 39% | -   |
| FRC-153   | -   | 30% | 32%  | 4%  | -   |
| KWM-2/2A  | 10% | 39% | 39%  | 4%  | -   |
| R-390A  | 10% | 2%  | 27%  | 30% | 40% |
| OTHER   | -   | 14% | 9%   | 57% | 13% |
| VHF/UHF EQUIPMENT                                       |     |     |      |     |     |
| AN/GRC-171  | 30% | 72% | 53%  | 9%  | -   |
| AN/GRC-175  | 30% | 19% | 43%  | 13% | •   |
| AN/GRR-23   | 10% | 19% | 36%  | 4%  | -   |
| AN/GRR-24   | 30% | 63% | 49%  | 13% | 7%  |
| AN/GRR-25   | 30% | 2%  | 28%  | 9%  | -   |
| AN/GRT-21   | 30% | 19% | 44%  | 4%  | -   |
| AN/GRT-22   | 30% | 67% | 49%  | 8%  | -   |
| OTHER   | •   | 18% | 7%   | 65% | 27% |
| TRANSPORTABLE GROUND RADIO EQUIPMENT                    |     |     |      |     |     |
| AN/MRC-107  | -   | 16% | 3%   | 74% | -   |
| AN/TSC-60(V) 1/2  | -   | 11% | 4%   | -   | -   |
| MISSILE/WEATHER EQUIPMENT                               |     |     |      |     |     |
| AN/FRR-75/76/77/78                                      | 10% | -   | 10%  | -   | -   |
| DL-19W  | 10% | 4%  | 14%  |     | 7%  |
| R-2174/R-390A   | 10% | -   | 11%  | 13% | 20% |
|   |     |     |      |     |     |

TABLE 29

JOB SATISFACTION AND RELATED DATA FOR FIRST-TERM MAJOR COMMAND GROUPS (PERCENT MEMBERS RESPONDING)

| I FIND MY JOB:   | ATC           | TAC            | AFCC          | MAC           | ESC           |
|--|---------------|----------------|---------------|---------------|---------------|
| DULL<br>SO-SO<br>INTERESTING                                 | 20<br>-<br>80 | 14<br>18<br>68 | 7<br>18<br>75 | 9<br>9<br>82  | 7<br>27<br>66 |
| MY JOB UTILIZES MY TALENTS:                                  |               |                |               |               |               |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | 20<br>80      | 33<br>67       | 21<br>79      | 17<br>83      | 13<br>87      |
| MY JOB UTILIZES MY TRAINING:                                 |               |                |               |               |               |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | -<br>90       | 28<br>72       | 20<br>79      | 48<br>52      | 27<br>73      |
| I PLAN TO REENLIST:  |               |                |               |               |               |
| NO, PLANNING TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES | -<br>40<br>50 | 72<br>28       | -<br>59<br>40 | -<br>65<br>35 | 73<br>27      |

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO "NO RESPONSE"

#### TRAINING ANALYSIS

Occupational survey data is just one of the many sources of information which can be used to help make training programs more meaningful and relevant to students. Factors provided in occupational surveys which may be used in evaluating training are the percentage of first enlistment personnel maintaining equipment, percentage of first enlistment personnel utilizing test equipment, percentage of first enlistment personnel utilizing test equipment, percentage of first enlistment personnel utilizing electronic principles, and task difficulty ratings. These factors can be used in evaluating the Specialty Training Standard (STS) for the 304X4 specialty. Technical school personnel at the Keesler Technical Training Center matched inventory tasks to areas of instruction outlined in the STS, dated August 1979. A complete computer listing of the percent members performing and task difficulty ratings for each task along with the matching STS paragraph and subparagraph has been forwarded to technical school and MAJCOM training personnel for their use in reviewing training documents. A summary of that information is described below.

# Analysis of Task Difficulty

The relative difficulty of each task in the job inventory was assessed through ratings by 50 experienced 7- and 9-skill level Ground Radio Communications NCOs. These tasks were processed to produce an ordered listing of all tasks in terms of their relative difficulty and were standardized to have an average difficulty of 5.0 (68 percent of all 863 tasks have ratings between 4.0 and 6.0). This task difficulty task listing is somewhat different than the task listing presented in this section of AFPT 90-304-422, Volume I. The task difficulty analysis in this report uses only the ratings from 304X4 task difficulty raters, while the AFPT 90-304-422 Volume I task difficulty analysis utilizes the combined ratings from the personnel in three specialties (AFSs 304X0, 304X4 and 304X6). Because the personnel in different specialties may view the difficulty of tasks somewhat differently, it is important to use only specialty-specific raters when analyzing specialty documents, such as the STS. Therefore, the analysis of task difficulty and that of the STS will only use the ratings of 304X4 personnel. (For a more complete description of these ratings, see the Task Factor Administration section in the INTRODUCTION).

In order to help insure that the 304X4 raters reflect the same perceptions as the rest of the career ladder concerning task difficulty, it is necessary that a representative sample of task difficulty raters be obtained. Table 30 reveals the major command distribution of the task difficulty raters versus the same distribution of all the personnel assigned to the 304X4 specialty, and reveals a representative sample of task difficulty raters was obtained. Having a representative sample is extremely important, especially when the personnel in different major commands utilize or maintain different types of equipment, because a large overrepresentation of one major command may lead to spurious task difficulty ratings. This was not the case with the 304X4 task difficulty ratings.

Table 31 lists the tasks rated the most difficult by 304X4 task difficulty raters. Almost all of these tasks involve supervision or the isolation of malfunctions in specific pieces of equipment, particularly Universal Radio Group (URG) type equipment. Examples of these most difficult tasks include isolating malfunctions in URG automatic switchboards, isolating malfunctions in URG data bypass equipment, or drafting budget or financial requirements. Overall, very few of either 304X4 first enlistment or 304X4 total sample personnel perform those tasks rated the most difficult. However, even though the percentages are low, about equal percentages of first enlistment and total sample personnel are performing the maintenance tasks rated above average in difficulty.

Most of the tasks rated about average in difficulty are also maintenance oriented, but seem to involve the adjusting of equipment rather than isolating malfunctions in equipment (see Table 32). Some of these tasks rated about average in difficulty include adjusting UHF power amplifier components, adjusting preselector components, or aligning AM receivers. Generally, a greater percentage of both all 304X4 and 304X4 first enlistment personnel perform these tasks rated average in difficulty than those rated high in difficulty.

Table 33 lists the tasks rated the least difficult by senior 304X4 personnel. Generally, these tasks involve routine maintenance, administrative functions, or aspects of tactical communications. Examples of these relatively easy tasks include clearing mobility work areas, painting equipment or facilities, or removing or replacing desiccants. As expected, many of the tasks rated the least difficult are performed by high percentages of first-termers and total sample personnel.

# Analysis of the Specialty Training Standard

The 304X4 Specialty Training Standard (STS), dated August 1979, was reviewed for first enlistment (1-48 months TAFMS) and 5- and 7-skill level Ground Radio Communications personnel. Subject matter specialists at the Keesler Technical Training Center assisted in the analysis by matching job inventory tasks to specific paragraphs in the STS. Each paragraph in the STS was then analyzed using task difficulty and percent members performing vectors to determine if the paragraph had job inventory justification for being in the STS. For the 304X4 specialty, the STS was found to give a broad overview of the career ladder, and all STS paragraphs appear to be well justified based on occupational data.

TABLE 30

MAJOR COMMAND REPRESENTATION OF 304X4
TASK DIFFICULTY RATERS

| MAJOR COMMAND | PERCENT<br>OF<br>ASSIGNED | PERCENT OF<br>TASK DIFFICULTY<br>RATERS |
|---------------|---------------------------|---|
| AFCC          | 63                        | 74                                      |
| ESC           | 10                        | 4                                       |
| TAC           | 9                         | 6                                       |
| ATC           | 4                         | 6                                       |
| OTHER         | 14                        | 10                                      |
| TOTAL         | 100                       | 100                                     |

TOTAL NUMBER OF 304X4 TASK DIFFICULTY RATERS = 50

TABLE 31

REPRESENTATIVE TASKS RATED THE MOST DIFFICULT BY DAFSC 304X4 RATERS

|             |   | AS<br>V    | PERCENT OF FIRST ENLISTMENT PERSONNEL | PERCENT OF DAFSC 304X4 PERSONNEL PERFORMING |
|-------------|---|------------|---------------------------------------|---|
| TASK        |   | DIFFICULTY | (N=605)                               | (N=1,618)                                   |
| <b>A</b> 8  |   | 7.89       | 1.7                                   | 7.8   |
| H172        |   | 7.35       | .5                                    | ٦.  |
| 0578        | ISOLATE MALFUNCTIONS IN URG AUTOMATIC SWITCHBOARDS  | 7.28       | 5.6                                   | 3.2   |
| <b>0587</b> | N   | 7.23       | 4.3                                   | 5.5   |
| 1197        |   | 7.13       | ∞.                                    | 9.  |
| A14         | WE'R  | 7.01       | 1.7                                   | 0.4   |
| 0280        | MALFUNCTIONS IN   | 7.00       | 8.4                                   | 5.9   |
| 0584        | MALFUNCTIONS IN   | 7.00       | 1.8                                   | 2.3   |
| S628        | MALFUNCTIONS IN   | 6.97       | .5                                    | ۲.  |
| 0588        | MALFUNCTIONS IN URG STATUS I  | 6.94       | 5.3                                   | 6.1   |
| 19LN        |   | 06.90      | 15.5                                  | 14.2  |
| 0586        | IN URG RE   | 68.9       | 9.6                                   | 6.5   |
| <b>C8</b> 2 |   | 6.85       | 1.8                                   | 9.3   |
| D101        | DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE (CDC) CURRICULUM                     |            |                                       |   |
|             | MATERIALS   | 6.81       | 1.0                                   | 2.0   |
| 0581        | ISOLATE MALFUNCTIONS IN URG DIAL PULSE CONTROLS   | 6.78       | 6.1                                   | 4.9   |
| B52         | SUPERVISE CIVILIAN PERSONNEL  | 6.74       | 1.2                                   | 5.1   |
| <b>0740</b> | ISOLATE MALFUNCTIONS IN DIGITAL PRINTERS  | 6.74       | 2.8                                   | 3.2   |
| 0589        | ISOLATE MALFUNCTIONS IN URG TIMING DRAWERS  | 6.74       | 2.0                                   | 2.3   |
| C63         | EVALUATE BUDGET OR FINANCIAL REQUIREMENTS   | 6.74       | ∞.                                    | 4.9   |
| 0577        | ISOLATE MALFUNCTIONS IN URG ATTENDANT DRAWERS   | 6.74       | 2.1                                   | 2.9   |
| 0573        | ISOLATE MALFUNCTIONS IN DIALED FREQUENCY REGISTERS  | 6.70       | 3.8                                   | 5.7   |
| C84         | WRITE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY APPRAISALS                              | 69.9       | .7                                    | 3.4   |
| 0576        | IN  | 99.9       | 1.0                                   | 1.7   |
| T675        | ISOLATE MALFUNCTIONS IN SECURITY SYSTEM MICROCOMPUTER CONTROL/CONVERTER                   |            |                                       |   |
| ,           | IES   | 6.62       | 5.                                    | 9.  |
| T679        | MALFUNCTIONS IN SECURI  | 9.60       | ∞.                                    | 7.  |
| 0518        | MALFUNCTIONS IN SATELLIT  | 6.58       | e.                                    | 4.  |
| S624        | MALFUNCTIONS IN FERRIT  | 6.58       | က် .                                  | 'n.   |
| \$625       | ISOLATE MALEUNCTIONS IN MAGIC T NETWORKS ISOLATE MAINIMETIONS IN TRACKING POWN CONTRIDERS | 6.58       | ų,                                    | 4   |
| 2070        | INTERIOR TO THE THEORY  | 0.30       | j.                                    | 9.  |

TABLE 32

REPRESENTATIVE TASKS RATED ABOUT AVERAGE IN DIFFICULTY BY DAFSC 304X4 PERSONNEL

| TASK         |   | TASK<br>DIFFICULTY | PERCENT OF FIRST ENLISTMENT PERSONNEL PERFORMING (N=605) | PERCENT OF DAFSC 304X4 PERSONNEL PERFORMING (N=1,618) |
|--------------|---|--------------------|--|---|
| T684         | ISOLATE MALEUNCTIONS IN SECURITY SYSTEM TELEVISION VIDEO AMPLIETEDS | 70                 | c  | v   |
| M423         | ADJUST OUT-OF-BAND SIGNALING AND CONTROL CIRCUIT                    | 3.0.5              | ŗ.   | ·   |
|              |   | 90.5               | ∞.   | 6.  |
| 0785         | ISOLATE MALFUNCTIONS IN TUBE TYPE PILOT TONE OSCILLATORS            | 5.06               | 1.0  | 1.2   |
| <b>J250</b>  | ISOLATE MALFUNCTIONS IN DIPLEXERS OR DUPLEXERS                      | 5.06               | 1.3  | 1.1   |
| 0527         | PERFORM PMIS ON COMMANDO ESCORT CONSOLES                            | 5.05               | 1.2  | 1.3   |
| <b>J318</b>  | ISOLATE MALFUNCTIONS IN TUBE TYPE AM RECEIVERS                      | 5.05               | 24.8   | 25.5  |
| A17          | PLAN SAFETY PROGRAMS  | 5.04               | 4.5  | 13.4  |
| N467         | O   | 5.04               | 2.1  | 2.7   |
| <b>T322</b>  | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER                   |                    |  |   |
|              |   | 5.03               | 48.9   | 37.6  |
| <b>U726</b>  | ADJUST ULTRA HIGH FREQUENCY (UHF) MIXER COMPONENTS                  | 5.03               | 29.1   | 22.7  |
| T656         | ADJUST SECURITY SYSTEM VOICE COMMUNICATION SYSTEM                   |                    |  |   |
|              | COMPONENTS  |                    | 5.   | 9.  |
| 0508         | ISOLATE MALFUNCTIONS IN AUTODIN MONITOR TEST CONSOLES               |                    | 5.   | 7.  |
| K282         | _   | 5.02               | 31.2   | 22.8  |
| 3245         |   | 5.01               | 11.7   | 11.9  |
| U727         | ADJUST VERY HIGH FREQUENCY (VHF) MIXER COMPONENTS                   | 5.01               | 23.5   | 18.0  |
| B57          | SUPERVISE RADIO RELAY EQUIPMENT (WIDEBAND                           |                    |  |   |
|              |   | 5.01               | 7.   | 2.4   |
| N465         |   | 5.00               | e:   | .7  |
| T652         | SION  | 5.00               | ۴.   | .7  |
| T653         | ADJUST SECURITY SYSTEM TELEVISION MONITOR                           |                    |  |   |
|              | COMPONENTS  | 2.00               | £.   | 9:  |
| K291<br>T648 | ALIGN AM RECEIVERS<br>ADJUST SECIRITY SYSTEM SEISMIC SENSOR SYSTEM  | 66.4               | 57.5   | 47.8  |
| ?            | )   | 66.4               | .3   |   |

TABLE 33

REPRESENTATIVE TASKS RATED THE LEAST DIFFICULT BY DAFSC 304X4 PERSONNEL

| TASK         |  | TASK | PERCENT OF<br>FIRST ENLISTMENT<br>PERSONNEL PERFORMING<br>(N=605) | PERCENT OF DAFSC 304X4 PERSONNEL PERFORMING (N=1,618) |
|--------------|--|------|---|---|
| W859         | PERFORM SITE SECURITY DUTIES                       | 2,82 | 21.5  | 18.9  |
| D86          | ADMINISTER TESTS                                   | 2.82 | 3.6   | 8.9   |
| W858         | PERFORM OPERATOR MAINTENANCE ON POWERED VEHICLES   | 2.81 | 19.5  | 19.8  |
| 6166         | RUN TEST TAPES                                     | 2.77 | 25.6  | 22.4  |
| V815         | CONSTRUCT WALKWAYS FOR SITES                       | 2.77 | 2.5   | 2.2   |
| W841         | MAINTAIN HOUSEHOLD AIR LINES                       | 2.76 | 1.0   | 1.2   |
| V814         | O PROPOSED   | 2.74 | 2.1   | 1.7   |
| W854         | PERFORM OPERATOR MAINTENANCE ON GROUND SUPPORT     |      |   |   |
|              | EQUI PMENT   | 2.72 | 14.5  | 15.0  |
| W842         | MAINTAIN HOUSEHOLD FUEL LINES                      | 2.66 | 1.2   | 1.2   |
| V833         | SKIRT BUILDINGS                                    | 2.65 | 7.  | ۲.  |
| V831         | LOAD OR UNLOAD SUPPORT EQUIPMENT ON SHIPS          | 2.60 | . 7   | 1.1   |
| V834         | SKIRT VANS   | 2.60 | 3.  | 1.0   |
| A25          | SCHEDULE LEAVES OR PASSES                          | 2.53 | 4.3   | 22.2  |
| W839         | LUBRICATE VAN OR TRAILER CHASSIS                   | 2.51 | 6.1   | 5.3   |
| <b>G16</b> 5 | READ METERS TO DETERMINE EQUIPMENT OPERATION OR    |      |   |   |
|              | SIGNAL QUALITY                                     | 2.51 | 74.9  | 63.3  |
| W852         | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS |      |   |   |
|              | OR PASSENGER VEHICLES                              | 2.38 | 55.0  | 51.4  |
| F138         | MAINTAIN OFFICE SUPPLIES                           | 2.33 | 4.3   | 17.6  |
| V813         | CONSTRUCT SITE LATRINES                            | 2.28 | 2.8   | 2.0   |
| <b>G164</b>  | PERFORM TURN-ON OR TURN-OFF PROCEDURES             | 2.19 | 72.2  | 7.09  |
| 1196         | INSTALL OR REMOVE MOUNTING HARDWARE                | 2.13 | 44.3  | 37.1  |
| W840         | MAINTAIN DINING AREA EQUIPMENT                     | 2.09 | 3.1   | 2.2   |
| V832         | LOAD OR UNLOAD SUPPORT EQUIPMENT ON TRAINS         | 2.04 | 5.  | ∞.  |
| D109         | SCORE TESTS  | 2.04 | 2.8   | 7.6   |
| 1192         | CRATE OR UNCRATE COMPONENTS OR MODULES             | 1.82 | 42.3  | 36.3  |
| W837         | CLEAR MOBILITY WORK AREAS                          | 1.73 | 12.7  | 10.3  |
| W853         | PAINT EQUIPMENT OR FACILITIES                      | 1.71 | 6.94  | 43.2  |
| <b>A</b> 2   | ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL       | 1.50 | 2.6   | 17.9  |
| 1210         | REMOVE OR REPLACE DESICCANTS                       | 1.44 | 9.8   | 9.6   |
| M836         | CLEAN MAINTENANCE WORK AREAS                       | 1.29 | 74.9  | 61.5  |

#### ANALYSIS OF WRITE-IN COMMENTS

Respondents are invited to write in any comments relative to their job in back of their job inventory booklet. In this survey, a fairly small amount of write-in comments addressed a range of career ladder irritants. Generally, these comments involve job control, tactical communications units, training, or assignment dissatisfaction.

Although there have been a number of proposals to create a separate AFSC for job control, none have yet to be implemented. It appears that in the Communications-Electronics career field (30XXX), there would be enough job control slots to justify a separate specialty. The philosophy of sending personnel to fairly lengthy technical schools and then utilizing them in job control may be a tremendous waste of training dollars. In addition, these personnel are typically the least satisfied in the career ladder. Specific comments about job control include:

"I feel that job control should be a separate career ladder for the following reasons. Job controllers in all units I know of have been largely or entirely manned by 304X4 radio maintenance repairmen, who, when it comes to taking their SKT for promotion still have to take the 304X4 radio maintenance test even though they have not worked in their job for the period they have been in job control, which in many cases has been years. It is also wrong in my opinion to take an airman from his job to man job control after all the time and effort that was spent to train him on how that shop operates. Job control is an important part of the unit and should be manned by a crew of properly trained airmen who can be transferred from unit to unit and be ready to perform the job he or she is trained to do. It is not a job that should be manned by airmen being rotated from the maintenance shops on a part time basis or by the unit misfits..."

"...Job control is a waste of money in so far that what a person was trained for, at great expense, he is not proficient at doing...I believe that ground CEM should have a separate AFSC."

"For the most part I have no job and am bored, frustrated, and without any satisfaction or feeling of accomplishment. I am not being used where, or in a method that best suits my talents or desires."

A small number of write-ins expressed concern over assignment policies. These comments are as follows:

"I am retiring because I did not want to go remote from this assignment. I even refused my E-8 promotion because of that fact. 30499s are not allowed to extend past four years in Europe because of AFCC policy. I would have stayed in Germany, if I had been allowed."

"I have spent 11 of the last 14 years in overseas locations, and am still here. This is due to being in ESC, which I would like to get out of."

"This survey is based on present location. My present duty location is unlike any radio maintenance shop. There is no order or AF standards...it is not what you know, but who you know."

Two comments were made referring to tactical communications units. These comments are as follows:

"I joined this career field to become an electrician, not a 9-level grunt. I don't mind working with my hands, but I'd like to be able to use my brains."

"Being in a mobile tactical outfit requires much of our time being spent erecting tents and quarters and camoflaging equipment and sites. Our equipment is always kept at the very best operating conditions and this helps cut down troubleshooting time. We must repaint our vans, shelters, and trucks about two times a year."

Several write-ins expressed a concern over the training received at the resident technical shool. These comments are as follows:

"My knowledge of microwave equipment is very poor, as well as my understanding of basic electronics. I am very unhappy in this career field, and feel I could be more of an asset to the AF doing a job I fully understand..."

- "...It is my feeling that one should already be well-grounded in the fundamentals by the time he reaches the workcenter. This training more than pays for itself, decreasing equipment downtime and time spent troubleshooting. In order to include more training in electronics fundamentals without an increase in the school's length, you could exclude or minimize the time spent teaching anything extraneous to electronics fundamentals, such as filling out paperwork, performing PMIs, etc..."
- "...Having been a student, a worker, a trainer, a NCOIC, an instructor, and an instructor supervisor, I can see that we are not teaching as much electronics as we used to teach. The quality of the graduates from the technical schools is diminished because of this. We need to teach more electronics and more in more depth..."

Although these comments point to some specific irritants in the career ladder, overall, the number of write-in comments was low (roughly one percent). In other words, some of these comments may reflect individual differences rather than the feelings of the total career ladder.

#### COMPARISON TO PREVIOUS SURVEY

The results of this 304X4 survey were compared to those of a previous Occupational Survey Report, AFPT 90-304-177 dated Juiy 1976. This analysis can help identify changes in the career ladder due to new missions, changing management policies, new operational equipment, etc. Generally, the two studies reported relatively consistent findings, with differences appearing in the following areas:

A thorough analysis of the tasks and jobs performed by first enlistment incumbents reveal no substantial changes have occurred in the types of tasks and jobs performed over the last five years. However, some changes have occurred in the types of equipment maintained and the percentages of first enlistment personnel maintaining the equipment. Table 34 lists the percentages of 1976 and 1981 first-termers maintaining various types of radios and related equipment. The overall trend is that somewhat higher percentages of current first-termers maintain existing ground radio systems, particularly the AN/GRC-171 and AN/FRC-153. However, some pieces of equipment, such as the R-390A and AN/GRA-53/54 can be noted as being maintained by higher percentages of 1976 first-termers. Table 34 also lists the test equipment commonly utilized by 1976 and 1981 first-termers. It appears that no conclusion can be drawn from this table, due to the fact that some test equipment is utilized by higher percentages of 1976 first-termers, while other equipment is utilized by higher percentages of similar 1981 personnel.

Table 35 presents job satisfaction data for both 1976 and 1981 first, second, and career enlistment groups. While the tasks performed by these TAFMS groups have changed little over the last five years, some of the job satisfaction indicators have. Generally, 1981 first-termers appear to be more satisfied with their job, with higher percentages of these incumbents finding their job interesting or perceiving their job utilizes their talents and training than their 1976 counterparts. However, the same trend does not hold true for second-termers. Table 35 reveals that although a higher percentage of 1981 second-termers perceive their job utilizes their training, a substantially lower percentage plans to reenlist. This difference in reenlistment intentions is the largest difference noted on Table 35 for similar 1976 and 1981 TAFMS groups. Finally, Table 35 reveals that overall, slightly lower percentages of 1981 career personnel are satisfied with their job than their 1976 counterparts.

A review of the 304X4 career ladder structure reveals no substantial job changes have occurred in the last five years. Table 36 lists the major job groups identified in 1976 and the equivalent major job groups identified in 1981. The biggest difference seems to occur with the Radio Operators job group identified in 1976. These personnel worked with tactical units and operated the radios associated with these units. The 1981 study, however, reveals that substantially fewer 304X4 personnel are radio operators, but are now primarily maintenance only. However, this 1976 job group is very small (as are the other job groups identified in 1976 and having no corresponding 1981 job group), and these overall differences are minor. In general, the structure of the career ladder has remained relatively stable over the last five years.

TABLE 34

A COMPARISON OF THE EQUIPMENT MAINTAINED AND TEST EQUIPMENT UTILIZED BY FIRST-ENLISTMENT PERSONNEL IN THE 1976 AND 1981 OSRs

|                  | PERCENT<br>FIRST-T<br>MAINTAL | TERMERS |
|------------------|-------------------------------|---------|
| RADIO EQUIPMENT: | 1976                          | 1981    |
| AN/GRC-171       | 2                             | 50      |
| AN/GRR-24        | 39                            | 47      |
| AN/GRT-22        | 40                            | 47      |
| AN/GRT-21        | 21                            | 37      |
| AN/GRC-175       | 23                            | 36      |
| KWM-2/2A         | 30                            | 35      |
| AN/GRR-23        | 15                            | 30      |
| AN/FRC-153       | 6                             | 29      |
| R-390A           | 29                            | 23      |
| AN/GRR-25        | 16                            | 23      |
| AN/GRA-53/54     | 30                            | 12      |
| DL-19W           | -                             | 11      |
| R-2174/R-390A    |                               | 10      |

|                             | PERCENT  | OF     |
|-----------------------------|----------|--------|
|                             | FIRST-7  | ERMERS |
|                             | MAINTAI  | INING  |
| TEST EQUIPMENT:             | 1976     | 1981   |
| MULTIMETERS                 | 92       | 93     |
|                             | 92<br>87 |        |
| OSCILLOSCOPES               |          | 91     |
| RF SIGNAL GENERATORS        | -        | 88     |
| AUDIO FREQUENCY GENERATORS  | 85       | 86     |
| VOLTAGE MEASURING EQUIPMENT | 88       | 77     |
| DISTORTION ANALYZERS        | 52       | 77     |
| FREQUENCY MEASURING SETS    | 48       | 77     |
| POWER SUPPLIES              | -        | 72     |
| TUBE TESTERS                | 81       | 70     |
| POWER METERS                | 69       | 67     |
| VSWR METERS                 | -        | 61     |
| HIGH VOLTAGE PROBES         | -        | 49     |
| SPECTRUM ANALYZERS          | 40       | 46     |
| SEMICONDUCTOR TESTERS       | •        | 41     |
| POWER AMPLIFIERS            | -        | 40     |
| FLUTTER METERS              | -        | 32     |

<sup>&</sup>quot;-" INDICATES NO DATA COLLECTED

TABLE 35

A COMPARISON OF JOB SATISFACTION DATA FOR VARIOUS ENLISTMENT GROUPS
IN THE 1976 AND 1981 OSRs
(PERCENT MEMBERS RESPONDING)

|                         | FIRST-<br>(1-48 MONT)<br>1976 |    | SECOND<br>(49-96 MON<br>1976 | THS TAFMS) |    | REER<br>THS TAFMS)<br>1981 |
|-------------------------|-------------------------------|----|------------------------------|------------|----|----------------------------|
| FINDS JOB INTERESTING:  | 63                            | 74 | 65                           | 65         | 82 | 70                         |
| UTILIZES TALENTS WELL:  | 69                            | 78 | 72                           | 76         | 86 | 77                         |
| UTILIZES TRAINING WELL: | 66                            | 76 | 65                           | 75         | 79 | 72                         |
| INTENDS TO REENLIST:    | 36                            | 36 | 68                           | 49         | 70 | 62                         |

### TABLE 36

### A COMPARISON OF THE MAJOR JOB GROUPS IDENTIFIED IN THE 1976 AND 1981 OSRs

| 1976 CLUSTERS AND INDEPENDENT JOB TYPES          | 1981 CLUSTERS AND INDEPENDENT<br>JOB TYPES  |
|--|---|
| TACTICAL AIR SUPPORT                             | GROUND RADIO MAINTENANCE PERSONNEL  |
| MISSILE COMMUNICATIONS EQUIPMENT                 | TITAN RADIO REPAIRMEN   |
| AIR TRAFFIC CONTROL EQUIPMENT                    | SR RADIO REPAIRMEN<br>GROUND RADIO MAINTENANCE PERSONNEL<br>JR GROUND RADIO MAINTENANCE PERSONNEL                                       |
| SAC A & B NET                                    | AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL   |
| MOBILE VAN EQUIPMENT                             | GROUND RADIO MAINTENANCE PERSONNEL  |
| 487L/LF/HF                                       | GROUND RADIO MAINTENANCE PERSONNEL  |
| SECURITY SERVICE                                 | ELECTRONIC SECURITY PERSONNEL   |
| SUPERVISORS                                      | FIRSTLINE MAINTENANCE SUPERVISORS RADIO MAINTENANCE SUPERVISORS RESIDENT TRAINING SUPERVISORS TOOL CRIB SUPERVISORS NCOICS, JOB CONTROL |
| QUALITY CONTROL                                  | QUALITY CONTROL PERSONNEL<br>LIMITED EXPERIENCE QC PERSONNEL  |
| TEST EQUIPMENT CLERK                             |   |
| RADIO TYPE MAINTENANCE NETWORK                   |   |
| INSTRUCTORS                                      | RESIDENT TECHNICAL SCHOOL INSTRUCTORS INSTRUCTORS AND MAINTENANCE PERSONNEL   |
| RADIO OPERATORS                                  |   |
| MAINTENANCE PLANS & SCHEDULING                   | PLANS AND SCHEDULING PERSONNEL JOB CONTROLLERS SUPPLY PERSONNEL   |
| INSTALLATION                                     | E & I PERSONNEL<br>FIXED E & I PERSONNEL  |
| PA/INTERCOM SYSTEMS INSTALLATION AND MAINTENANCE | COMMUNICATIONS-ELECTRONICS PERSONNEL PUBLIC ADDRESS EQUIPMENT PERSONNEL   |

### IMPLICATIONS

The Ground Radio Communications career ladder is fairly heterogeneous, with a wide variety of jobs performed by 304X4 personnel. The technical radio maintenance jobs are fairly diverse, which is primarily due to the different types of ground radio equipment maintained or installed by these incumbents. In addition, the nontechnical jobs performed by these respondents also differ considerably, ranging from job control to supervisors to instructors. As expected, most of the personnel in the nontechnical jobs are more senior, having a higher paygrade and higher average of months TAFMS than the personnel performing primarily radio maintenance or installation functions.

The career ladder has remained relatively stable over the last few years, and no drastic changes are foreseen in the near future, with the career ladder expected to remain fairly diverse. An interesting issue concerning the career ladder is the fact that similar percentages of first-termers are performing many of the tasks rated the most difficult in the job inventory. In addition, higher percentages of 1981 first-termers are maintaining the more common types of ground radios than their 1976 counterparts. These two factors tend to indicate that 304X4 first-termers are pulling more of a maintenance load than ever before, and resident technical school training and OJT personnel should recognize this and make adjustments for this trend. However, a complicating factor concerning OJT is the fact that substantially lower percentages of second-termers and career personnel are planning to reenlist than in the past, and the availability of these personnel to perform OJT functions may be somewhat more restricted than it is now.

A review of job satisfaction data reveals some interesting trends. When examining the job satisfaction data for major job groups, in most cases personnel performing an E & I or job control related job appear to be among the most dissatisfied. This trend can be noted for almost all of the specialties in the 30XXX career field, and is probably due to the fact that these two types of jobs are not quite what an individual entering the 30XXX career field expected.

APPENDIX A

### Job Type Descriptions

Listed below are brief descriptions of the job types identified in the Ground Radio Communication CAREER LADDER STRUCTURE section. Generally, the clusters all appear to be fairly heterogeneous, with a variety of related jobs identified in each cluster. As with the CAREER LADDER STRUCTURE section, the data on Appendix A is presented in two ways. First, a very brief narrative description is provided for each job type. Second, duty, background, and job satisfaction tables are provided so that easy comparisons can be made between the job types in any one cluster. (For further explanation of the job types identified, see the CAREER LADDER STRUCTURE section of this report.)

### Ground Radio Maintenance Personnel

There are eight job types in this cluster, and the biggest differentiating factors between these job types appear to be the type of ground radio equipment maintained and the average number of tasks performed. Traffic Control Equipment Repairmen perform an average of 164 tasks and are responsible for maintaining the ground radios associated with ground-to-air communications at an air base. These incumbents maintain such radios as the AN/GRC-175, AN/GRC-171, or AN/GRR-24, and appear to be fairly satisfied with their job, with 93 percent perceiving their training is being utilized at least fairly well. Mobile Communications Equipment Repairmen are maintaining the ground radios associated with tactical communications units, such as the These personnel perform an average of 146 tasks and 44 percent are located overseas. Control Tower Equipment Repairmen maintain the same equipment and perform a job very similar to ATC Equipment Repairmen. However, these personnel are about three years junior and only perform about half as many tasks as ATC Equipment Repairment. Technical Control/Radar Facility Radio Repairmen are primarily working at technical control or radar facilities and are maintaining the ground radios associated with those sites. Forty-seven percent of <u>KWT-6/5 Transceiver Repairmen</u> are located overseas, and only 37 percent are in their first enlistment. These incumbents routinely maintain such equipment as the 208U-3, AN/FRC-153, KWM-2/2A, and KWT-6/5. AN/TSC-60(V) Communications Central Repairmen average 72 months TAFMS and 63 percent maintain the AN/TSC-60(V) 1/2. It is interesting to note that only 59 percent of these incumbents find their job interesting but 58 percent plan to reenlist. AN/MRC-107 Repairmen work in tactical communications units or Combat Communications Groups and maintain the mobile ground radios associated with those organizations. It is interesting to note that 80 percent are in their first enlistment and only 38 percent plan to reenlist. Finally, AN/GRA-53/54 Repairmen spend 38 percent of their job time on supervisory duties and perform an average of 60 tasks. These incumbents routinely maintain such radios as the AN/GRC-130 or AN/GRA-53/54, and only 15 percent are stationed overseas. (For more information about these job types, see Tables I, II, and III.)

### Aeronautical Station and GIANT TALK Equipment Personnel

There are five job types within this cluster, and there appear to be a number of differentiating factors among these job types. Some of the factors that best distinguish these jobs are the average number of tasks performed, the type of ground radio equipment maintained, and the amount of time spent maintaining transmitters, receivers, or universal radio group (URG) equip-208U-3/10 Equipment Repairmen are working at overseas transmitter sites and concentrate on maintaining the 208U-3, 208U-10, and 310V-1. Ninety percent of these personnel hold the 5-skill level, and only 65 percent find their job interesting. Only ten percent of Transmitter Site Shift Supervisors are located overseas, and 30 percent hold the 7-skill level. Nintey percent of these personnel work at a transmitter site, and 90 percent find their job interesting. Ground-to-Air Radio Repairmen maintain the same radios as 208U-3/10 Equipment Repairmen, but only perform half as many tasks and spend slightly more job time maintaining transmitters. Seventy-two percent of these incumbents are in this first enlistment, and 45 percent plan HF Receiver Repairmen are somewhat different in that these to reenlist. incumbents spend 19 percent of their job time maintaining receivers, which is more than the other job types in this cluster. Eighty-six percent of these incumbents work at receiver sites, and these incumbents maintain such equipment as the 651F-1 and R390-A. Finally, SCOPE CONTROL/PANEL Equipment Repairmen spend 20 percent of their job time maintaining SCOPE CONTROL or URG equipment. Sixty-nine percent report working at Control Centers, 54 percent are located overseas, and 43 percent are in their first enlistment. (For more information about these job types see Tables IV, V, and VI.)

### Quality Control Personnel

Personnel from the 304X0, 304X4, and 304X6 specialties can be found in the job types in this cluster. The average number of tasks performed, the level assigned, and the type of mission evaluated appear to be the biggest differentiators of the personnel in these job types. Senior Quality Control Personnel appear to be personnel experienced in quality control and are located at a variety of wideband, ground radio, and space communication system locations. These personnel perform an average of 36 tasks, and 62 percent plan to reenlist. Fifty percent of Headquarters Level Quality Control Personnel are working in a headquarters staff position. These respondents are among the most senior, averaging 202 months TAFMS and 89 percent find Junior Quality Control Personnel appear to be their job interesting. personnel who have recently been assigned to a quality control position. They perform a low average number of tasks (13) and only 60 percent find their job interesting. Finally Engineering and Installation Quality Control Personnel are responsible for insuring that the installation or removal of equipment is done correctly. These personnel are relatively junior (average TAFMS of 153 months) and only 40 percent believe their training is utilized at least fairly well. (For more information about these job types see Tables VII, VIII, and IX.)

### Firstline Maintenance Supervisors

As with Quality Control Personnel, 304X0, 304X4, and 304X6 personnel can also be found in these three job types. The differentiating factors for the three job types appear to be the type of unit assigned, the average number of tasks performed, and the types of equipment maintained. Ground Radio Firstline Supervisors are working at a number of fixed ground radio locations and roughly divide their time between supervisory and maintenance duties. These incumbents maintain a variety of ground radio equipment, and it is interesting to note that 65 percent plan to reenlist. Wideband Firstline Supervisors are primarily working at fixed wideband communications sites overseas. These personnel also roughly divide their time between supervisory and maintenance duties, and perform an average of 178 tasks. In addition, these incumbents are fairly satisfied, with 62 percent planning to reenlist and 82 percent finding their job interesting. Mobility Firstline Supervisors are primarily 304X6 personnel working at mobile or tactical communications units. These incumbents perform a very high average number of tasks (237) and 53 percent are located overseas. These incumbents are relatively dissatisfied, with only 67 percent finding their job interesting and only 47 percent plan to reenlist. (For more information about these types see Tables X, XI, and XII.)

### Radio Maintenance Supervisors

The two job types in this cluster are also made up of 304X0, 304X4, and 304X6 personnel. The average number of tasks performed, the time spent performing supervisory duties, and the average months TAFMS seem to be the biggest discriminators between these two groups. Site Superintendents spend about 90 percent of their job time on supervisory duties, and average 240 months TAFMS. Fifty-eight of these incumbents are located overseas and generally, these incumbents perform more of a management job that the other job type in this cluster. In addition, these incumbents seem to be very satisfied with their job, with 84 percent finding their job interesting and 95 percent perceiving their job utilized their talents at least fairly well. Workcenter Supervisors perform an average of 87 tasks and appear to be the middle level supervisors at a variety of ground radio, wideband, and space communication system workcenters. These incumbents only average 204 months TAFMS, and 78 percent find their job interesting. (For more information about these job types see Tables XIII, XIV, and XV.)

TABLE I

RELATIVE PERCENT TIME SPENT ON DUTIES BY GROUND RADIO MAINTENANCE PERSONNEL JOB TYPES

| DCTY  | ATC<br>EQUIP<br>REP<br>(GRP1071,<br>N=188) | MOBILE<br>COMM<br>EQUIP<br>REP<br>(GRP1188, | CONTRUL<br>TOWER<br>EQUIP<br>REP<br>(GRP770,<br>N=62) | TECH<br>CONTROL/<br>RADAR<br>REP<br>(GRP626,<br>N=47)_ | KWT-<br>6/5<br>TRANS<br>REP<br>(GRP700,<br>N=43) | AN/TSC-<br>60(V)<br>REP<br>(GRP724,<br>N=57) | AN, YRC-<br>107 RAD10<br>REP<br>(GRP548,<br>N=21) | AN. GRA-<br>53/54<br>REP<br>(GRP549,<br>N=27) |
|---|--|---|---|--|--|--|---|---|
| ORGANIZING AND PLANNING<br>DIRECTING AND IMPLEMENTING<br>INSPECTING AND EVALUATING  | m m - m                                    |   | ·····································                 | 7 : 5 1  | 7          | വതടത   |   | 10<br>11<br>8                                 |
| PREPARING AND MAINTAINING FORMS, RECORDS AND REPORTS PERFORMING SUPPLY FUNCTIONS PERFORMING SOUPPERT POPERATION FUNCTIONS PERFORMING CAPITY OF CARLOW FUNCTIONS | 003×                                       | — 01 v0 ∜                                   | - 2 7 *   | শব ∞ে∻   | രണംഗം∻   | m य क ४                                      | നനമം  | <b>∞</b> ∼≈*                                  |
| PERFORMING SABELLIE OFERALIUM FUNCTIONS PARTORING GENERAL HAINTENANCE FUNCTIONS HAINTAINING ANTENNA SYSTEMS   | 0-   | =-  | <u> </u>  | 15   | 14<br>2  | 13   | ==  | œ <i>-</i> -                                  |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF TRANSCEIVERS  | 91   | 23  | 18  | 16   | 15   | 14   | 19  | 8   |
| MAINTAINING TRANSMITTERS TO INCLUDE INANSMITTER PORTION OF TRANSCEIVERS   | 18   | 23  | 23  | 19   | 17   | 91   | 23  | 7   |
| MAINTAINING VOICE FREQUENCY MULLIPLEXERS AND ASSOCIATED INTERFACE EQUIPMENT AND ACCOUNTED   | ts.  | ÷¢  | ⊰¢  | ÷  | ή¢   | ψ¢   | 4:  | दं  |
| INTERFACE EQUIPMENT   | \$\$ T                                     | સર  | ⊀   | ৰং ক   | * ^  | <b>7</b> %                                   | <b>નેદ</b> ⊰વ                                     | -;c ~   |
| HAINTAINING COMDIONICATION ON CONTROL CONSOLES HAINTAINING AUDIO OF FACSIMILE EQUIPMENT   | · v  |   | 2 5   | 7  | n en   | : <b>*</b>                                   | ķ   | . 7   |
| CONTROL   | 44   | 水。  | *   | 4: -   | -;« -  | 4 -  | * +   | * -   |
| MAINTAINING MODEMS<br>MAINTAINING TRACKING SYSTEMS  | nt nje                                     | ોર નોર                                      | de ⊰e   | k -}¢  | je -je   | × -{:  | e -:e   | c etc   |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS  | નુંદ                                       | *   | ÷¢  | *  | -)¢  | *  | ÷ -   | *   |
| MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES PERFORMING SITE INSTAINATION OR MOVING FUNCTIONS  | <b>4</b> .                                 | <u>۽</u> د                                  | ∞ -⊀  | 6 -  | 17   | ∞ <b>-</b> 7                                 | r 4   | <b>.</b>                                      |
| PERFORMING SUPPORT FUNCTIONS  | 3  | •   | 3   | ø  | 3  | 1  | 01  | e e   |

\*DENOTES LESS THAN ONE PERCENT

: : :

BACKGROUND INFORMATION FOR GROUND RADIO MAINTENANCE PERSONNEL JOB TYPES

|  | ATC                                 | MOBILE<br>COMM | CONTROL      | TECH<br>CONTROL/ | KWT-<br>6/5   |              | AN/MRC-          | AN/GRA       |
|--|-------------------------------------|----------------|--------------|------------------|---|--------------|------------------|--------------|
|  | EQUIP<br>REP                        | EQUIP<br>REP   | EQUIP<br>REP | RADAR<br>REP     | TRANS<br>REP  | 60(V)<br>REP | 107 RADIO<br>REP | 53/54<br>REP |
| AVERAGE NUMBER OF TASKS PERFORMED:           | 164                                 | 140            | 8.2          | 5.7              | 127   |              | 78               | 09           |
| JOB DIFFICULTY INDEX:                        | 19.4                                | 18.4           | 13.2         | 12.7             | 16.9  |              | 12.3             | 10.8         |
| AVERAGE PAYGRADE:                            | E-4                                 | E-4            | E-3/E-4      | E-4              | E-4/E-5   |              | ₩.               | E-3/E-4      |
| PERCENT LOCATED OVERSEAS:                    | %60                                 | <b>%</b> 777   | 13%          | 17%              | 47%   |              | 38%              | 15%          |
| DAFSC  | :<br> <br> <br> <br> <br> <br> <br> |                | :            | !<br>!           |   |              |                  | !            |
| 30434  | %6                                  | 12%            | 37%          | 25%              | 5%  |              | 19%              | 30%          |
| 30454  | 20%                                 | 72%            | 55%          | %09              | 72%   |              | 81%              | 63%          |
| 30474  | 707                                 | 16%            | <b>8</b> 8   | 15%              | 21%   |              | •                | 2            |
| 304X0  | 1%                                  |                | •            | •                | 2%  |              | •                | ٠.           |
| 304X6  | ı                                   | •              | •            | •                | 1   |              | •                | •            |
| Name   |                                     | ı              | ı            | •                | ı   |              | ŀ                |              |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED:      |                                     |                |              | <br> <br>        | :<br>1  |              | -                | .            |
| AVERAGE MONTHS TAPMS:                        | 7.3                                 | 70             | 42           | 57               | 79  |              | • 65             | 77           |
| PERCENT IN FIRST ENLISTMENT:                 | %15                                 | 52%            | 78%          | 57%              | 37%   |              | 80%              | 73%          |
| PERCENT MAINTAINING THE FOLLOWING EQUIPMENT: |                                     |                |              |                  |   | 1            |                  |              |
|  | 2%                                  | 26             |              | 3%               | 33%   |              | •                | •7           |
| 208U-10                                      | 7 <b>7</b>                          |                | 1            | ,                | 23.6  |              | •                | •            |
| 6187-1                                       | 96                                  | 38%            | 3%           | 2%               | 2.5   |              | 5.2%             | 4.7          |
| AN/FRC-153                                   | <b>%</b> 09                         | 43%            | 37%          | 13%              | 30%   |              | 38.5             | 19%          |
| KWM-2/2A                                     | %79                                 | 24%            | 22%          | 21%              | 584   |              | 43%              | 22%          |
| KWT-6/5                                      | 15%                                 | 10%            | 10%          | 11%              | 207   |              |                  | 7.5          |
| K-390A                                       | 36%                                 | 23%            | %0%          | <b>6</b> 47      | 45%   |              | 14%              | 3            |
| AN/UKA-33/34                                 | 35%                                 | 20%            | 21%          | •                | 2%  |              | 9-8<br>8-8       | 33%          |
| AN GRUEL / 1 AN GRUEL / 1                    | 476                                 | 51.0           | 97%          | 87%              | 767   |              | 771              | 22%          |
| AN COD-23                                    | 900                                 | 328            | 268<br>268   | 2/1              | Fe :  |              | . 1              | 2            |
| AN / CRR - 24                                | 27/                                 | 257            | 135          | 79 6             | 16%   |              | <b>5</b> 0       | 7            |
| AN / GRR-25                                  | 957                                 | re a<br>t -    | 18 a         | 286              | 16%   |              | 19%              | 112          |
| AN CET - 21                                  | 910                                 | 157            | 65%<br>61%   |                  | , 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 |              | . ;              | , :          |
| AN / GBT = 22                                | 476                                 | 407            | 406          | re a             | 7   |              | <b>%</b>         | 3            |
| R-1250                                       | 30%                                 | 2 3            | 400          | 406              | 701   |              | 761              | 7.1          |
| AN /HRC-107                                  | 8 84                                | <b>%</b> 07    | 4 10         |                  | <b>4</b> 8 c  |              |                  |              |
| AN/TSC-60(V) 1/2                             | . 25                                | 21%            | 9 I          | 26               | 4 7<br>-  |              | re 8<br>7<br>7   | , ,          |
| AN/GRC-130                                   | 1%                                  | 2%             | 2%           | 8 1              |   |              | <b>.</b>         | 7.17         |
|  |                                     |                | <b>:</b>     |                  |   |              |                  | <b>e</b>     |

TABLE 111

JOB SATISFACTION AND RELATED DATA FOR GROUND RADIO MAINTENANCE PERSONNEL JOB TYPES (PERCENT HEMBERS RESPONDING)\*

| ATC COMP TOWER EQUIP EQUIP EQUIP REP                | FIND MY JOB: 5 9 2   2   2   2   2   2   2   2   2   2 | MY JOB UTILIZES MY TALENTS:         11         23         8           NOT AT ALL TO VERY LITTLE         11         23         8           FAIRLY WELL ON BETTER         89         75         92 | MY JOB UTILIZES HY TRAINING:         7         20         3           NOT AT ALL TO VERY LITTLE         7         20         3           FAIRLY WELL OR BETTER         93         80         95 | PLAN TO REENLIST:   NO, PLANNING TO RETIRE   2 - 2     NO OR PROBABLY NO   44   57   50     YES OR PROBABLY YES   53   43   46 |
|---|--|--|---|--|
| TECH KWT-<br>CONTROL/ 6/5<br>RADAR TRANS<br>REP REP | 19 14<br>11 14<br>68 72                                | 15 21<br>85 79   | 17 16<br>83 82  | 2<br>53<br>45<br>45<br>56  |
| AN/TSC-<br>60(V)<br>REP                             | 18<br>23<br>59   | 26<br>74   | 18<br>82  | 2<br>40<br>58  |
| AN/HRC-<br>107 RADIO<br>REP                         | 10<br>-<br>90  | 24<br>76   | 38<br>62  | - 62<br>38   |
| AN/GRA-<br>53/54<br>REP                             | 7<br>15<br>78  | 30<br>70   | 15<br>85  | 1 8 4  |

\*NOTE: TABLES MAY NOT ADD TO 100 PERCENT DUE TO "NO RESPONSE"

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TABLE IV

RELATIVE PERCENT TIME SPENT ON DUTIES BY AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL JOB TYPES

|   |            | TRANS      | GROUND-     |          |                |
|---|------------|------------|-------------|----------|----------------|
|   | 208U-3/10  | SITE       | TO-AIR      | =        | SCOPE CONTROL/ |
|   | EQUIP      | SHIFT      | RADIO       | RECEIVER | PANEL EQUIP    |
|   | REP        | SUPV       | REP         | REP      | REP            |
| 2   | (GRP1120,  | (GRP1050,  | (GRP1398,   | (GRP487, | (GRP835,       |
| WILLIAM TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE | N=20)      | (01=10)    | N=11)       | N=28)    | N=35)          |
| ORGANIZING AND PLANNING   | -          | c          | -           | ·        | ·              |
| DIRECTING AND IMPLEMENTING  |            | 4 6        | <b>-</b> -  | 7 (      | 7 (            |
| INSPECTING AND EVALUATING   | <b>y</b> - | <b>∩</b> 4 | ٠, -        | η -      | 7 -            |
| TRAINING  | - ~        | . 4        | <b>-</b> ⊰: | - ~      | ٠,             |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS   | 7 7        | , 0        |             | , ,      | 4 0            |
| PERFORMING SUPPLY FUNCTIONS   | 7          | · c        | ~           | ۰,       | . ~            |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS  | 9          | 12         | 17          | 000      | . ~            |
| PERFORMING SATELLITE OPERATION FUNCTIONS  | *          | -;c        | *           | · -{<    | - <b>4</b> ¢   |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS  | 14         | 14         | 19          | 13       | 6              |
|   | ٣          | 2          | 7           | 7        | -*             |
|   | **         | 4          | -t¢         | 19       | 6              |
| •   |            |            |             |          |                |
| •   | 23         | 20         | 28          | -        | *              |
| _   |            |            |             |          |                |
| _   | *          | *          | *           | *        | +1             |
|   | *          | *          | *           | *        | -              |
| _   | ÷¢         | -          | e           | *        | 11             |
|   | *          | 1          | ł¢          | 1        | 7              |
|   | 71         | -          | 2           | 13       | 70             |
|   | *          | ⊰¢         | *           | ÷        | *              |
|   | -je        | 40         | *           | 4¢       | *              |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS  | ţ¢         | 4          | ÷           | *        | -}¢            |
| MAINTAINING COMMON OR MISCELLANEOUS SUBASSEMBLIES   | 11         | 19         | 7           | 1.1      | 17             |
| PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS  | *          | <b>-</b> k | *           | નંદ      | ÷              |
| PERFORMING SUPPORT FUNCTIONS  | 4          | 9          | 4           | 3        | 7              |
|   |            |            |             |          |                |

\*DENOTES LESS THAN ONE PERCENT

TABLE V

BACKGROUND INFORMATION FOR AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL JOB TYPES

|  | 208U-3/10<br>EQUIP<br>REP | TRANS<br>SITE<br>SHIFT<br>SUPV | GROUND-<br>TO-AIR<br>RADIO<br>REP | HF<br>RECEIVER<br>REP                   | SCOPE CONTROL/<br>PANEL EQUIP<br>REP |
|--|---------------------------|--------------------------------|-----------------------------------|---|--------------------------------------|
| AVERAGE NUMBER OF TASKS PERFORMED:<br>JOB DIFFICULTY INDEX:    | 112<br>15.9               | 89<br>12.6                     | 64<br>11.1                        | 102<br>15.3                             | 127<br>17.9                          |
| AVERAGE PAYGRADE:  | E-4                       | E-4/E-5                        | E-3/E-4                           | E-4/E-5                                 | E-4                                  |
| PERCENT LOCATED OVERSEAS                                       | 85%                       | 10%                            | 25%                               | %79                                     | 24%                                  |
| DAFSC  |                           |                                |                                   |   |                                      |
| 30434  | 2%                        | 10%                            | 18%                               | 32                                      | %9                                   |
| 30454  | %06                       | 209                            | 73%                               | <b>%</b> 79                             | 71%                                  |
| 30474  | 5%                        | 30%                            | <b>%</b> 6                        | 29%                                     | 17%                                  |
| 304X0  | ,                         | ı                              | •                                 | •                                       | 3%                                   |
| )04X6  | •                         | •                              | ,                                 | •                                       | 3%                                   |
| OTHER  | 1                         | ı                              | •                                 | •                                       | •                                    |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED:                        | 1                         |                                | •                                 | •                                       |                                      |
| AVERAGE MONTHS TAFMS:  | 58                        | 72                             | 43                                | 83                                      | 73                                   |
| PERCENT IN FIRST ENLISTMENT:                                   | 45%                       | %07                            | 72%                               | 36%                                     | 43%                                  |
| PERCENT MAINTAINING T.E FOLLOWING EQUIPMENT:                   |                           |                                |                                   |   |                                      |
| 515-1  | 20%                       | •                              | 36%                               | 29%                                     | 37%                                  |
| 208U-3   | 95%                       | 10%                            | 73%                               | <b>%</b> 7                              | 11%                                  |
| 208U-10  | 100%                      | 10%                            | 82%                               | <b>7</b> 4                              | 17%                                  |
| 310V-1   | 100%                      | 10%                            | <b>64%</b>                        | •                                       | 23%                                  |
| 651F-1   | 1                         | •                              | <b>%</b> 6                        | 868                                     | 57%                                  |
| R390-A   | 45%                       | %07                            | <b>%</b> 6                        | 32%                                     | 31%                                  |
| PERCENT WORKING IN THE FOLLOWING AREAS:                        |                           |                                |                                   |   |                                      |
| CONTROL CENTER (CRC)   | 10%                       | 1                              | %6                                | 11%                                     | %69                                  |
| RECEIVER SITE (FIXED)  | •                         | •                              | 1                                 | 86%                                     | %67                                  |
| TRANSHITTER SITE (FIXED)                                       | 85%                       | %06                            | 100%                              | 1                                       | 17%                                  |
| PERCENT HAVING THE FOLLOWING JOB TITLES:                       |                           | 300                            | 3                                 |   |                                      |
| CREW CHIEF/SHIFT SUPERVISOR TECHNICIAN (PRIMARILY MAINTENANCE) | 15%                       | 30%<br>70%                     | 8 %<br>8 %<br>8 %                 | 4 | 14%<br>60%                           |
|  | <b>R</b>                  | <b>2</b>                       | 5<br>5                            | <b>e</b>                                | 2                                    |

TABLE VI

JOB SATISFACTION AND RELATED DATA FOR AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL JOB TYPES (PERCENT MEMBERS RESPONDING)

| DULL SO-SO INTERESTING  MY JOB UTILIZES MY TALENTS: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER  MY JOB UTILIZES MY TRAINING: NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER  I PLAN TO REENLIST: | 208U-3/10 EQUIP REP 20 15 65 80 80 85 | TRANS SITE SHIFT SUPV | GROUND-<br>TO-AIR<br>RADIO<br>REP<br>9<br>73<br>73<br>73<br>73 | HF<br>RECEIVER<br>REP<br>14<br>14<br>72<br>14<br>86<br>86 | SCOPE CONTROL/ PANEL EQUIP REP  3 17 70 11 89 17 83 |
|--|---------------------------------------|-----------------------|--|---|---|
| NO OR PROBABLY NO YES OR PROBABLY YES  | -<br>09                               | 0,09                  | 55<br>45   | 50<br>39  | 32<br>65  |

TABLE VII

RELATIVE PERCENT TIME SPENT ON DUTIES BY QUALITY CONTROL PERSONNEL JOB TYPES

| DUTIES   | SR QC<br>PERS<br>(GRP510,<br>N=60) | LEVEL QC<br>PERS<br>(GRP513,<br>N=18) | PERS | E&I QC<br>PERS<br>(GRP260,<br>N=10) |
|--|------------------------------------|---------------------------------------|------|-------------------------------------|
| ORGANIZING AND PLANNING                              | 14                                 | 23                                    | 9    | 20                                  |
| DIRECTING AND IMPLEMENTING                           | 10                                 | 15                                    | 8    | 18                                  |
| INSPECTING AND EVALUATING                            | 31                                 | 37                                    | 47   | 7                                   |
| TRAINING   | 8                                  | 3                                     | 4    | 2                                   |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORT | S 22                               | 12                                    | 1    | 17                                  |
| PERFORMING SUPPLY FUNCTIONS                          | 2                                  | 2                                     | 3    | 18                                  |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS             | 2                                  | *                                     | *    | 2                                   |
| PERFORMING SATELLITE OPERATION FUNCTIONS             | *                                  | *                                     | *    | *                                   |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS             | 4                                  | *                                     | 2    | 2                                   |
| MAINTAINING ANTENNA SYSTEMS                          | *                                  | *                                     | *    | *                                   |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION     |                                    |                                       |      |                                     |
| OF TRANSCEIVERS                                      | *                                  | *                                     | *    | 1                                   |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT         |                                    |                                       |      |                                     |
| PORTION OF TRANSCEIVERS                              | *                                  | *                                     | 1    | *                                   |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND         |                                    |                                       |      |                                     |
| ASSOCIATED INTERFACE EQUIPMENT                       | *                                  | *                                     | *    | <i>*</i>                            |
| MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED     |                                    |                                       |      |                                     |
| INTERFACE EQUIPMENT                                  | *                                  | *                                     | *    | ×                                   |
| MAINTAINING COMUNICATION OR CONTROL CONSOLES         | *                                  | *                                     | *    | ¥                                   |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT             | *                                  | *                                     | *    | *                                   |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO         |                                    |                                       |      |                                     |
| GROUP EQUIPMENT                                      | *                                  | *                                     | *    | ×                                   |
| MAINTAINING MODEMS                                   | *                                  | *                                     | *    | *                                   |
| MAINTAINING TRACKING SYSTEMS                         | *                                  | *                                     | *    | *                                   |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS   | *                                  | *                                     | *    | *                                   |
| MAINTAINING COMMON OR MISCELLANEOUS                  | *                                  | *                                     | *    | *                                   |
| PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS     | *                                  | *                                     | 1    | *                                   |
| PERFORMING SUPPORT FUNCTIONS                         | 1                                  | *                                     | 1    | 6                                   |

<sup>\*</sup>DENOTES LESS THAN ONE PERCENT

TABLE VIII

BACKGROUND INFORMATION FOR QUALITY CONTROL PERSONNEL JOB TYPES

|   | SR<br>QC<br>PERS | HQ<br>LEVEL<br>QC<br>PERS               | JR<br>QC<br>PERS | E&I<br>QC<br>PERS |
|---|------------------|---|------------------|-------------------|
| AVERAGE NUMBER OF TASKS PERFORMED:      | 36               | 38                                      | 13               | 43                |
| JOB DIFFICULTY INDEX:                   | 10.5             | 12.2                                    | 9.3              | 8.8               |
| AVERAGE PAYGRADE:                       | E-6              | E-6/E-7                                 | E-6              | E-5/E-6           |
| PERCENT LOCATED OVERSEAS:               | 30%              | 28%                                     | 20%              | 50%               |
| DAFSC                                   |                  |   |                  |                   |
| 30430                                   | -                | -                                       | -                | -                 |
| 30450                                   | 7%               | -                                       | -                | 10%               |
| 30470                                   | 23%              | 33%                                     | 20%              | 10%               |
| 30434                                   | •                | •                                       | -                | -                 |
| 30454                                   | 1 <b>3%</b>      | -                                       | 10%              | 60%               |
| 30474                                   | 50%              | 61%                                     | 70%              | 20%               |
| 30436                                   | -                | -                                       | -                | -                 |
| 30456                                   | 2%               | -                                       | -                | -                 |
| 30476                                   | 2%               | <b>6%</b>                               | -                | -                 |
| OTHER                                   | 3%               | -                                       | •                | -                 |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED: | 1                | _                                       | _                | •                 |
| AVERAGE MONTHS TAFMS:                   | 169              | 202                                     | 178              | 153               |
| PERCENT IN FIRST ENLISTMENT:            | 5%               | -                                       | 10%              | 10%               |
| PERCENT WORKING IN THE FOLLOWING AREAS: |                  | *************************************** |                  |                   |
| E&I UNIT                                | 5%               | 6%                                      | 10%              | 20%               |
| EVALUATION AND INSPECTION TEAMS         | 18%              | 28%                                     | 20%              | -                 |
| HEADQUARTERS STAFF                      | 8%               | 50%                                     | 10%              | -                 |
| QUALITY CONTROL                         | 75%              | 28%                                     | 70%              | 10%               |

TABLE IX

JOB SATISFACTION AND RELATED DATA FOR QUALITY CONTROL PERSONNEL JOB TYPES (PERCENT MEMBERS RESPONDING)\*

|                              | SR<br>QC<br><b>PERS</b> | HQ<br>LEVEL<br>QC<br>PERS | JR<br>QC<br>PERS | E&I<br>QC<br>PERS |
|------------------------------|-------------------------|---------------------------|------------------|-------------------|
| I FIND MY JOB:               | <del></del>             |                           |                  |                   |
| DULL                         | 7                       | 11                        | -                | 40                |
| SO-SO                        | 10                      | -                         | 40               | -                 |
| INTERESTING                  | 81                      | 89                        | <b>6</b> 0       | 60                |
| MY JOB UTILIZES MY TALENTS:  |                         |                           |                  |                   |
| NOT AT ALL TO VERY LITTLE    | . 8                     | 17                        | 30               | 40                |
| FAIRLY WELL OR BETTER        | 90                      | 83                        | 70               | 60                |
| MY JOB UTILIZES MY TRAINING: |                         |                           |                  |                   |
| NOT AT ALL TO VERY LITTLE    | 17                      | 22                        | 40               | 60                |
| FAIRLY WELL OR BETTER        | 83                      | 78                        | 54               | 40                |
| I PLAN TO REENLIST:          |                         |                           |                  |                   |
| NO, PLANNING TO RETIRE       | 23                      | 33                        | 20               | 20                |
| NO OR PROBABLY NO            | 15                      | 22                        | 30               | 30                |
| YES OR PROBABLY YES          | 62                      | 45                        | 50               | 50                |

\*NOTE: PERCENTAGES MAY NOT ADD TO 100 PERCENT DUE TO "NO RESPONSE"

RELATIVE PERCENT TIME SPENT ON DUTIES BY FIRSTLINE MAINTENANCE SUPERVISORS AND RADIO MAINTENANCE SUPERVISORS JOB TYPES

|  | FIRSTLINE MAINT    | AINT SUPERVISORS   | ISORS              | RADIO MAINT | INT SUPRS           |
|--|--------------------|--------------------|--------------------|-------------|---------------------|
|  | GROUND<br>RADIO    | WIDEBAND           | MOBILITY           |             |                     |
|  | FIRSTLINE<br>SUPVS | FIRSTLINE<br>SUPVS | FIRSTLINE<br>SUPVS | SITE        | WORKCENTER<br>SUPVS |
|  | (GRP559,           | (GRP591,           | (GRP860,           | (GRP871,    | (GRP830,            |
| DUTIES   | N=65)              | N=49)              | N=13)              | N=19)       | N=130)              |
| ORGANIZING AND PLANNING                                      | 10                 | 9                  | 0                  | 32          | 19                  |
| DIRECTING AND IMPLEMENTING                                   | 11                 | 7                  | 6                  | 24          | 19                  |
| INSPECTING AND EVALUATING                                    | <b>∞</b>           | 3                  | ∞                  | 23          | 19                  |
|  | 6                  | ∞                  | ∞                  | σ           | 13                  |
| PREPARING AND MAINTAINING FORMS, RECORDS, AND REPORTS        | 9                  | 7                  | 2                  | 9           | 10                  |
| PERFORMING SUPPLY FUNCTIONS                                  | 7                  | 9                  | 2                  |             | 7                   |
| PERFORMING EQUIPMENT OPERATION FUNCTIONS                     | က                  | 9                  | 9                  | <b>-</b> †¢ | -                   |
| PERFORMING SATELLITE OPERATION FUNCTIONS                     | *                  | *                  | 7                  | ÷           | ⊀‹                  |
| PERFORMING GENERAL MAINTENANCE FUNCTIONS                     | 80                 | 6                  | 7                  | 4           | 7                   |
| MAINTAINING ANTENNA SYSTEMS                                  | -                  | ÷¢                 | က                  | *           | ⊀                   |
| MAINTAINING RECEIVERS TO INCLUDE RECEIVE PORTION OF          |                    |                    |                    |             |                     |
| TRANSCEIVERS   | ∞                  | 11                 | က                  | *           | *                   |
| MAINTAINING TRANSMITTERS TO INCLUDE TRANSMIT PORTION OF      |                    |                    |                    |             |                     |
| TRANSCEIVERS   | 7                  | 7                  | 2                  | *           | *                   |
| MAINTAINING VOICE FREQUENCY MULTIPLEXERS AND ASSOCIATED      |                    |                    |                    |             |                     |
| INTERFACE EQUIPMENT  | ⊀¢                 | 7                  | က                  | <b>-</b>  x | <b>-</b> /<         |
| MAINTAINING TELETYPE MULTIPLEXERS AND ASSOCIATED INTERFACE   |                    |                    |                    |             |                     |
| EQUIPMENT  | <b>-</b> ∤¢        | 1                  | 7                  | *           | ⊀                   |
|  | 1                  | *                  | -}c                | *           | <b>-</b> }¢         |
| MAINTAINING AUDIO OR FACSIMILE EQUIPMENT                     | 7                  | *                  | ⊹<                 | *           | ÷<                  |
| MAINTAINING SCOPE CONTROL OR UNIVERSAL RADIO GROUP EQUIPMENT | *                  | <b>-</b> ∤<        | *                  | *           | *                   |
|  | ⊀c                 | *                  | -                  | *           | *                   |
| MAINTAINING TRACKING SYSTEMS                                 | 4                  | ⊀                  | -                  | *           | *                   |
| MAINTAINING BASE AND INSTALLATION SECURITY SYSTEMS           | *                  | ⊀                  | ÷۲                 | *           | *                   |
| 22   | 2                  | 11                 | က                  | <b>-</b> K  | *                   |
| PERFORMING SITE INSTALLATION OR MOVING FUNCTIONS             | *                  | નુ                 | 7                  | *           | *                   |
| PERPOPEING SUPPORT FUNCTIONS                                 | က                  | ဧ                  | 9                  | <b>,</b>    |                     |
|  |                    |                    |                    |             |                     |

\*DENOTES LESS THAN ONE PERCENT

TABLE XI

BACKGROUND INFORMATION FOR FIRSTLINE MAINTENANCE SUPERVISORS
AND RADIO MAINTENANCE SUPERVISORS JOB TYPES

|  |   |  | UPERVISORS                          | DATAL SU                 | PERVISORS                    |  |
|--|---|--|-------------------------------------|--------------------------|------------------------------|--|
|  | GRD<br>RADIO<br>FIRST-<br>LINE<br>SUPVS | WIDE-<br>BAND<br>FIRST-<br>LINE<br>SUPVS | MOBILITY<br>FIRST-<br>LINE<br>SUPVS | SITE<br>SUPTS            | WORK-<br>CENTER<br>SUPVS     |  |
| AVERAGE NUMBER OF TASKS PERFORMED: JOB DIFFICULTY INDEX: AVERAGE PAYGRADE: PERCENT LOCATED OVERSEAS: | 152<br>18.2<br>E-6<br>29%               | 178<br>20.2<br>E-5/E-6<br>88%            | 237<br>22.9<br>E-5/E-6<br>53%       | 53<br>12.8<br>E-7<br>58% | 87<br>11.2<br>E-6/E-7<br>48% |  |
| DAFSC  | ·                                       |  |                                     |                          |                              |  |
| 30430  | -                                       | _  | -                                   | _                        | _                            |  |
| 30450  | _                                       | 45%                                      | -                                   | _                        | _                            |  |
| 30470  | _                                       | 53%                                      | 3 <b>3%</b>                         | 37%                      | 21%                          |  |
| 30434  | 2%                                      | -  | 7%                                  | -                        |                              |  |
| 30454  | 18%                                     | -  | 7%                                  | -                        | 3%                           |  |
| 30474  | 80%                                     | 2%                                       | -                                   | 32%                      | 65%                          |  |
| 30436  | -                                       | -~                                       | -                                   | 5%                       | 2%                           |  |
| 30456  | -                                       | -  | 33%                                 | 5%                       | 2%                           |  |
| 30476  | -                                       | -  | 20%                                 | 16%                      | 5%                           |  |
| OTHER  | -                                       | -  | -                                   | 5%                       | 2%                           |  |
| AVERAGE NUMBER OF PERSONNEL SUPERVISED:  | 4                                       | 3  | 2                                   | 6                        | 5                            |  |
| AVERAGE MONTHS TAFMS:  | 158                                     | 139                                      | 155                                 | 240                      | 204                          |  |
| PERCENT IN FIRST ENLISTMENT:   | 3%                                      | 4%                                       | 14%                                 | -                        | -                            |  |
| TYPE OF UNIT ASSIGNED:   | <del></del>                             | <del></del>                              | <del></del>                         | <del></del>              |                              |  |
| MOBILE   | 3%                                      | 4%                                       | 13%                                 | 11%                      | 7%                           |  |
| FIXED  | 75%                                     | 84%                                      | 40%                                 | 89%                      | 72%                          |  |
| TACTICAL   | 22%                                     | 4%                                       | 40%                                 | -                        | 15%                          |  |
| OTHER  | 5%                                      | 6%                                       | 7%                                  | -                        | 7%                           |  |

TABLE XII

JOB SATISFACTION AND RELATED DATA FOR FIRSTLINE MAINTENANCE SUPERVISORS
AND RADIO MAINTENANCE SUPERVISORS JOB TYPES
(PERCENT MEMBERS RESPONDING)\*

|  |   |  |                            |                | <b>D</b> IO              |
|--|---|--|----------------------------|----------------|--------------------------|
|  | FIRSTLI                                 | E MAINT                                  | SUPERVISORS                | MAINT SU       | JPERVISORS               |
|  | GRD<br>RADIO<br>FIRST-<br>LINE<br>SUPVS | WIDE-<br>BAND<br>FIRST-<br>LINE<br>SUPVS | MOBILITY FIRST- LINE SUPVS | SITE<br>SUPTS  | WORK-<br>CENTER<br>SUPVS |
| I FIND MY JOB:   |   |  |                            |                |                          |
| DULL<br>SO-SO<br>INTERESTING                                 | 14<br>9<br>75                           | 12<br>4<br>82                            | 13<br>20<br>67             | 16<br>84       | 10<br>12<br>78           |
| MY JOB UTILIZES MY TALENTS:                                  |   |  |                            |                |                          |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | 25<br>75                                | 10<br><b>88</b>                          | 33<br>67                   | 5<br>95        | 17<br>83                 |
| MY JOB UTILIZES MY TRAINING:                                 |   |  |                            |                |                          |
| NOT AT ALL TO VERY LITTLE FAIRLY WELL OR BETTER              | 22<br>78                                | 14<br>84                                 | 13<br>87                   | 16<br>84       | 24<br>76                 |
| I PLAN TO REENLIST:  |   |  |                            |                |                          |
| NO, PLANNING TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES | 14<br>21<br>65                          | 18<br>18<br>62                           | 20<br>33<br>47             | 32<br>16<br>52 | 37<br>17<br>46           |

\*NOTE: PERCENTAGES MAY NOT ADD TO 100 PERCENT DUE TO "NO RESPONSE"

APPENDIX B

# REPRESENTATIVE TASKS PERFORMED BY GROUND RADIO MAINTENANCE PERSONNEL (GRP336, N=607)

| TACVC        |   | PERCENT<br>MEMBERS |
|--------------|---|--------------------|
| TASKS        |   | PERFORMING         |
| K273         | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS                    | 92                 |
|              | ADJUST SQUELCH CIRCUIT COMPONENTS                                 | 89                 |
| G165         | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL            | ·                  |
|              | QUALITY   | 88                 |
| W836         | CLEAN MAINTENANCE WORK AREAS                                      | 87                 |
| G164         | PERFORM TURN-ON OR TURN-OFF PROCEDURES                            | 86                 |
| 1215         | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-         |                    |
|              | MINIATURE COMPONENTS USING SOLDERING METHODS                      | 85                 |
|              | PERFORM CORROSION CONTROL   | 84                 |
| 1219         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS          |                    |
|              | OTHER THAN SOLDERING  | 84                 |
| K284         | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER              |                    |
|              | COMPONENTS  | 83                 |
|              | ALIGN AM RECEIVERS  | 81                 |
| 1191         | CONSTRUCT SHOP CABLES OR TEST PLUGS                               | 80                 |
|              | PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS                   | 80                 |
| L359         | ALIGN AM UHF TRANSMITTERS OR EXCITERS                             | 79<br>70           |
|              | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER COMPONENTS      | 78                 |
| K334         | PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMIs) ON AM           | 77                 |
| V200         | RECEIVERS   | . 77               |
| K289         | ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RF AMPLIFIER COMPONENTS | 77                 |
| tios a       | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR             | //                 |
| W032         | PASSENGER VEHICLES  | 74                 |
| C162         | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT .                      | 74<br>74           |
|              | ISOLATE MALFUNCTIONS IN AM SOLID STATE UHF TRANSMITTERS OR        | 74                 |
| <b>L</b> 300 | EXCITERS  | 73                 |
| 1.404        | ISOLATE MALFUNCTIONS IN UHF POWER AMPLIFIERS                      | 73                 |
|              | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS                  | 72                 |
| L353         | ADJUST TRANSMIT GAIN, AUTOMATIC LOAD, OR AUTOMATIC LEVELING       |                    |
|              | CONTROL COMPONENTS  | 72                 |
| I220         | REMOVE OR REPLACE MECHANICAL COMPONENTS                           | 72                 |
|              | ALIGN TRANSCEIVERS  | 71                 |
|              | INSPECT SAFETY OF EQUIPMENT                                       | 71                 |
| G156         | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,       |                    |
|              | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY                | 71                 |
| L348         |   | 70                 |
| K272         | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS              | 69                 |
| L354         |   |                    |
|              | AMPLIFIER COMPONENTS  | 69                 |
| 1218         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES, SUCH AS MODULES       |                    |
|              | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS                | 68                 |
| F141         | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN               | 67                 |
|              | ADJUST AUDIO AMPLIFIER COMPONENTS                                 | 67                 |
| K276         | ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS                         | 66                 |
| I221         | REMOVE OR REPLACE MECHANICAL SUBASSEMBLIES                        | 66                 |

### REPRESENTATIVE TASKS PERFORMED BY ELECTRONIC SECURITY PERSONNEL (GRP712, N=61)

| TASKS | <u> </u>   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| K291  | ALIGN AM RECEIVERS   | 100                              |
| K284  | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |                                  |
|       | COMPONENTS   | 100                              |
|       | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 97                               |
|       | PERFORM CORROSION CONTROL  | 95                               |
| K334  | PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMIs) ON AM  |                                  |
|       | RECEIVERS  | 92                               |
| 1215  | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN   |                                  |
|       | MICROMINIATURE COMPONENTS USING SOLDERING METHODS REMOVE OR REPLACE MECHANICAL COMPONENTS                  | 92                               |
|       | 10.1012 011 1012.102 12012012012 00111 01121120  | 92                               |
|       | CLEAN MAINTENANCE WORK AREAS   | 90                               |
|       | PERFORM PMIs ON RECORDERS OR REPRODUCERS   | 90                               |
| I219  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   |                                  |
|       | OTHER THAN SOLDERING   | 89                               |
|       | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 89                               |
| K276  | ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS  | 87                               |
| I221  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES, SUCH AS MODULES  |                                  |
|       | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 85                               |
| K318  | ISOLATE MALFUNCTIONS IN TUBE TYPE AM RECEIVERS   | 84                               |
| P540  | ADJUST RECORDER OR REPRODUCER SUBASSEMBLIES OR COMPONENTS ADJUST AUDIO AMPLIFIER COMPONENTS                | 84                               |
| U692  | ADJUST AUDIO AMPLIFIER COMPONENTS  | 84                               |
| P546  | ISOLATE MALFUNCTIONS IN RECORDERS OR REPRODUCERS   | 82                               |
| P547  | MECHANICALLY ALIGN RECORDERS OR REPRODUCERS  | 82                               |
| P541  | ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS  | 80                               |
| I212  | REMOVE OR REPLACE ELECTROMECHANICAL COMPONENTS USING   |                                  |
|       | METHODS OTHER THAN SOLDERING   | 80                               |
| G156  |  |                                  |
|       | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 79                               |
| K295  | ISOLATE MALFUNCTIONS IN HF TUBE TYPE RECEIVE RF AMPLIFIERS   | 77                               |
| K326  | ISOLATE MALFUNCTIONS IN TUBE TYPE RECEIVE IF AMPLIFIERS PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES | 77                               |
| F142  | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES   | 77                               |
| I213  | REMOVE OR REPLACE ELECTROMECHANICAL SUBASSEMPLIES  |                                  |
|       | USING METHODS OTHER THAN SOLDERING   |                                  |
| K303  | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS   | 1.                               |
|       | ADJUST LIMITER COMPONENTS  | 77                               |
|       | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
|       | QUALITY  | 75                               |
| W853  | PAINT EQUIPMENT OR FACILITIES  | 75                               |
| K272  | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS SECURE CLASSIFIED MATERIALS                           | 75                               |
| W862  | SECURE CLASSIFIED MATERIALS  | 75                               |
|       | ISOLATE MALFUNCTIONS IN SOLID STATE AGCs   | 74                               |
|       | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 72                               |
|       | MAYP PUTDICC ON MAINTENANCE FORMS  | 70                               |

# REPRESENTATIVE TASKS PERFORMED BY PUBLIC ADDRESS EQUIPMENT REPAIRMEN (GRP359, N=15)

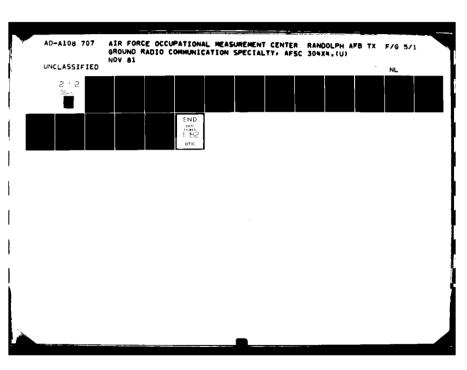
| TASKS        |   | PERCENT<br>MEMBERS<br>PERFORMING |
|--------------|---|----------------------------------|
| K273         | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS  | 93                               |
|              | PERFORM PMIs ON RECORDERS OR REPRODUCERS  | 87                               |
|              | ISOLATE MALFUNCTIONS IN RECORDERS OR REPRODUCERS  | 87                               |
|              | PERFORM CORROSION CONTROL   | 87                               |
| DE / A       | AD THE T DECORDED OF DEPROPHEED CIDACCEMENTES OF COMPONENTS   | 80                               |
| 1219         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS  | 80                               |
| G165         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS OTHER THAN SOLDERING READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY CONSTRUCT SHOP CABLES OR TEST PLUGS ADJUST SQUELCH CIRCUIT COMPONENTS CLEAN MAINTENANCE WORK AREAS ISOLATE MALFUNCTIONS IN PUBLIC ADDRESS SYSTEMS INSPECT SAFETY OF EQUIPMENT ALIGN AM RECEIVERS ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS ISOLATE MALFUNCTIONS IN ATC CONSOLE LIGHT GUNS SET UP OR REMOVE PUBLIC ADDRESS SYSTEMS MECHANICALLY ALIGN RECORDERS OR REPRODUCERS PERFORM PMIS ON PUBLIC ADDRESS SYSTEMS ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS PERFORM TURN-ON OR TURN-OFF PROCEDURES ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER | <b>6</b> V                       |
|              | QUALITY   | 73                               |
| I 191        | CONSTRUCT SHOP CABLES OR TEST PLUGS   | 73                               |
| K286         | ADJUST SQUELCH CIRCUIT COMPONENTS   | 73                               |
| W836         | CLEAN MAINTENANCE WORK AREAS  | 67                               |
| P545         | ISOLATE MALFUNCTIONS IN PUBLIC ADDRESS SYSTEMS  | 67                               |
| 1195         | INSPECT SAFETY OF EQUIPMENT   | 67                               |
| K291         | ALIGN AM RECEIVERS  | 67                               |
| K276         | ADJUST HE RECEIVE RE AMPLIFIER COMPONENTS   | 67                               |
| 0502         | ISOLATE MALFUNCTIONS IN ATC CONSOLE LIGHT GUNS  | 67                               |
| P553         | SET UP OR REMOVE PUBLIC ADDRESS SYSTEMS   | 60                               |
| P547         | MECHANICALLY ALIGN RECORDERS OR REPRODUCERS   | 60                               |
| P551         | PERFORM PMIs ON PUBLIC ADDRESS SYSTEMS  | 60                               |
| P541         | ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS   | 60                               |
| G164         | PERFORM TURN-ON OR TURN-OFF PROCEDURES  | 60                               |
| K284         | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER COMPONENTS   | 60                               |
| I215         | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN  |                                  |
|              | MICROMINIATURE COMPONENTS USING SOLDERING METHODS   | 60                               |
| K289         | ADJUST ULTRA HIGH FREQUENCY (UHF) RECEIVE RF AMPLIFIER  |                                  |
| N207         | COMPONENTS  | 60                               |
| T218         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES, SUCH AS MODULES   |                                  |
| 1210         | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS  | 60                               |
| <b>K</b> 272 | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS  | 60                               |
| 0504         | ISOLATE MALFUNCTIONS IN ATC CONSOLE TRANSMITTER CONTROL   |                                  |
|              | CIRCUITS  | 60                               |
| 0503         | ISOLATE MALFUNCTIONS IN ATC CONSOLE RECEIVER CONTROL  | (0                               |
|              | CURCUITS  | 60                               |
| P539         | ADJUST PUBLIC ADDRESS SYSTEM COMPONENTS   | 53                               |
| 1207         | PERFORM SAFETY INSPECTIONS  | 53                               |
| L409         | PERFORM PMIS ON AM UHF TRANSMITTERS OR EXCITERS   | 53                               |
| KZY3         | ALIGN SIDEBAND RECEIVERS  | JJ                               |
|              | ISOLATE MALFUNCTIONS IN ATC CONSOLES  | 53                               |
| W852         | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR   |                                  |
|              | PASSENGER VEHICLES  | 47                               |
| P536         | ADJUST FACSIMILE EQUIPMENT COMPONENTS DEPENDENT ON AM JUST TRANSMITTERS OF EVOLUTERS  | 47<br>47                         |
| 1 74 1 (1)   | DEDECTOR DMIS ON AM VOL TOANGMITTEDS OO EVCITEDS  | 44 /                             |

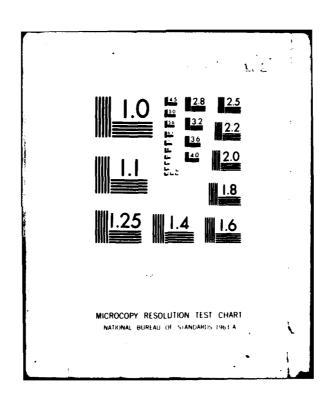
### REPRESENTATIVE TASKS PERFORMED BY ENGINEERING AND INSTALLATION PERSONNEL (GRP264, N=15)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| G164  | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 100                              |
| K273  | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 100                              |
| I196  | INSTALL OR REMOVE MOUNTING HARDWARE  | 93                               |
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
| 0160  | QUALITY CONTROL OF THE CONTROL OF TH | 93                               |
| 0102  | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT   | 93                               |
| 1215  | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-  | 93                               |
| 1224  | MINIATURE COMPONENTS USING SOLDERING METHODS   | 93<br>80                         |
| W852  |  | 80                               |
| W034  | PASSENGER VEHICLES   | 80                               |
| 0105  | INSPECT SAFETY OF EQUIPMENT  | 80                               |
|       | CRATE OR UNCRATE COMPONENTS OR MODULES   | 80                               |
|       | ADJUST SQUELCH CIRCUIT COMPONENTS  | 80                               |
|       | REMOVE OR REPLACE MECHANICAL SUBASSEMBLIES   | 80                               |
|       | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 80                               |
|       | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   | 00                               |
|       | COMPONENTS   | 80                               |
| I 191 | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 80                               |
| G156  |  |                                  |
|       | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 73                               |
| 1208  | PERFORM SYSTEM MODIFICATIONS   | 73                               |
| K290  |  |                                  |
|       | COMPONENTS   | 73                               |
| I212  | REMOVE OR REPLACE ELECTROMECHANICAL COMPONENTS USING   |                                  |
|       | METHODS OTHER THAN SOLDERING   | 67                               |
| U729  | ALIGN TRANSCEIVERS   | 67                               |
|       | PERFORM SAFETY INSPECTIONS   | 67                               |
| 1219  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   |                                  |
|       | OTHER THAN SOLDERING   | 67                               |
|       | LACE CABLE ASSEMBLIES OR INTERNAL WIRING   | 67                               |
|       | ADJUST HF RECEIVE RF AMPLIFIER COMPONENTS  | 67                               |
|       | ADJUST NOISE AMPLIFIER COMPONENTS  | 60                               |
|       | ALIGN SIDEBAND RECEIVERS   | 53                               |
| K289  |  |                                  |
|       | COMPONENTS   | 53                               |
|       | ADJUST LIMITER COMPONENTS  | 53                               |
| W853  |  | 53                               |
|       | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS   | 53                               |
| W836  |  | 47                               |
|       | ISOLATE MALFUNCTIONS IN SYSTEMS TO SPECIFIC EQUIPMENT  | 47                               |
|       | INSTALL OR REMOVE COMMUNICATIONS OR CONTROL TOWERS   | 47<br>47                         |
|       | INSTALL OR REMOVE FIXED COMMUNICATION EQUIPMENT  | 47                               |
| 1174  | FABRICATE SPECIAL COMPONENTS, SUCH AS TEST FIXTURES OR FUNCTION ROXES  | 47                               |

### REPRESENTATIVE TASKS PERFORMED BY AERONAUTICAL STATION AND GIANT TALK EQUIPMENT PERSONNEL

| TASKS |   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|---|----------------------------------|
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL  |                                  |
|       | QUALITY   | 88                               |
| 1206  | PERFORM CORROSION CONTROL   | 87                               |
|       |   | 84                               |
| 1215  | ADJUST AMPLITUDE OR LINE EQUALIZER COMPONENTS REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO- |                                  |
|       | MINIATURE COMPONENTS USING SOLDERING METHODS  | 82                               |
| I219  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS  |                                  |
|       | OTHER THAN SOLDERING  | 81                               |
| U712  | ADJUST LINE AMPLIFIER COMPONENTS  | 81                               |
| 0574  | ISOLATE MALFUNCTIONS IN FSK TELEPHONES  | 81                               |
| G164  | PERFORM TURN-ON OR TURN-OFF PROCEDURES  | 80                               |
|       | CLEAN MAINTENANCE WORK AREAS  | 79                               |
| G156  |   |                                  |
|       | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY  | 76                               |
| 0556  | ADJUST FREQUENCY SHIFT KEYING (FSK) TELEPHONE COMPONENTS  | 75                               |
|       | ADJUST ALLOTTER PRESET COMPONENTS   | 73                               |
|       | ISOLATE MALFUNCTIONS IN ALLOTTER PRESETS  | 73                               |
| U692  |   | 72                               |
|       | REMOVE OR REPLACE MECHANICAL COMPONENTS   | 71                               |
|       | CONSTRUCT SHOP CABLES OR TEST PLUGS   | 71                               |
| Q563  | ADJUST URG DIAL PULSE CONTROL COMPONENTS  | 70                               |
|       | OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT  |                                  |
|       | OPERATION OR SIGNAL QUALITY   | 69                               |
| Q562  | ADJUST URG DATA BYPASS EQUIPMENT COMPONENTS   | 69                               |
| 1221  | REMOVE OR REPLACE MECHANICAL SUBASSEMBLIES  | 68                               |
| Q570  | ADJUST URG STATUS DISPLAY READOUT COMPONENTS  | 68                               |
| Q581  | ISOLATE MALFUNCTIONS IN URG DIAL PULSE CONTROLS   | 67                               |
| Q555  | AD HIST DIALFD FREGUENCY REGISTED COMPONENTS  | 67                               |
| I212  | REMOVE OR REPLACE ELCTROMECHANICAL COMPONENTS USING   |                                  |
|       | METHODS OTHER THAN SOLDERING  | 65                               |
| U801  | PERFORM PMIs ON LINE AMPLIFIERS   | 64                               |
| I213  | REMOVE OR REPLACE ELECTROMECHANICAL SUBASSEMBLIES USING   |                                  |
|       | METHODS OTHER THAN SOLDERING  | 63                               |
|       | ISOLATE MALFUNCTIONS IN URG REMOTE CONTROL EQUIPMENT  | 63                               |
|       | MAKE ENTRIES ON MAINTENANCE FORMS   | 63                               |
| Q580  |   | 63                               |
| Q588  |   | 63                               |
| U745  | ISOLATE MALFUNCTIONS IN LINE AMPLIFIERS   | 62                               |
| G162  | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT  | 60                               |
| Q573  | ISOLATE MALFUNCTIONS IN DIALED FREQUENCY REGISTERS  | 60                               |
| Q569  | ·   | 60                               |
| 11749 | ISOLATE MALFUNCTIONS IN PATCH PANTIS  | 60                               |





# REPRESENTATIVE TASKS PERFORMED BY TITAN RADIO REPAIRMEN (GRP330, N=11)

| TASKS        |   | PERCENT<br>MEMBERS<br>PERFORMING |
|--------------|---|----------------------------------|
| 1.342        | ADJUST DRIVER, INTERMEDIATE POWER, OR TRANSMIT INTERFACILITY  |                                  |
| 2344         | LINE AMPLIFIER COMPONENTS   | 100                              |
| W836         | CLEAN MAINTENANCE WORK AREAS  | 91                               |
|              | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR   | <b>7.</b>                        |
|              | PASSENGER VEHICLES  | 91                               |
| 1206         | PERFORM CORROSION CONTROL   | 91                               |
|              | PERFORM PMIs ON FM UHF TRANSMITTERS, EXCITERS, OR UP  | 7-                               |
|              | CONVERTERS  | 82                               |
| F134         | MAINTAIN BENCHSTOCKS  | 82                               |
|              | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES   | 82                               |
| L414         | PERFORM PMIs ON FM VHF TRANSMITTERS OR EXCITERS   | 73                               |
|              | ADJUST AUTOMATIC FREQUENCY CONTROL (AFC) COMPONENTS   | 73                               |
| G164         | PERFORM TURN-ON OR TURN-OFF PROCEDURES  | 73                               |
| <b>I218</b>  | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES, SUCH AS MODULES   |                                  |
|              | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS  | 73                               |
| U693         |   |                                  |
|              | COMPONENTS  | 73                               |
|              | ADJUST DUMMY LOAD COMPONENTS  | 73                               |
|              | ADJUST HIGH VOLTAGE POWER SUPPLY COMPONENTS   | 73                               |
| L377         | ISOLATE MALFUNCTIONS IN EQUIPMENT SAFETY DEVICES, SUCH AS   |                                  |
|              | INTERLOCKS  | 73                               |
| G156         | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,   |                                  |
|              | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY  | 64                               |
| U721         |   |                                  |
|              | ORDERWIRE COMPONENTS  | 64                               |
| L353         | ADJUST TRANSMIT GAIN, AUTOMATIC LOAD, OR AUTOMATIC LEVELING   |                                  |
|              | CONTROL COMPONENTS  | 64                               |
|              | ADJUST VERY HIGH FREQUENCY (VHF) POWER AMPLIFIER COMPONENTS   | 64                               |
|              | ADJUST FM MODULATOR COMPONENTS  | 64                               |
| G1 <b>65</b> | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL  |                                  |
| T 255        | QUALITY   | 64                               |
|              | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER COMPONENTS ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER | 64                               |
| N204         | COMPONENTS  | 64                               |
| T210         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS  | 04                               |
| 1217         | OTHER THAN SOLDERING  | 64                               |
| K292         |   | 64                               |
|              | ADJUST LOCAL OSCILLATOR COMPONENTS  | 64                               |
| I 195        |   | 64                               |
| L383         | ISOLATE MALFUNCTIONS IN FM TUBE TYPE UHF TRANSMITTERS OR  | 04                               |
| -000         | EXCITERS  | 64                               |
| L384         | ISOLATE MALFUNCTIONS IN FM TUBE TYPE VHF TRANSMITTERS OR  | - •                              |
|              | EXCITERS  | 64                               |
| K273         | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS  | 64                               |
|              | ADJUST EQUIPMENT SAFETY DEVICE COMPONENTS, SUCH AS  | -                                |
|              | INTERLOCKS  | 64                               |

# REPRESENTATIVE TASKS PERFORMED BY SENIOR RADIO REPAIRMEN (GRP663, N=38)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
|       | QUALITY  | 97                               |
| G164  | DEDECOM THOM ON OR THOM OFF DROCPHINGS   | 0.7                              |
|       | ADJUST HIGH VOLTAGE POWER SUPPLY COMPONENTS  | 95                               |
|       | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 95                               |
| 1215  | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN   |                                  |
|       |  | 92                               |
| K284  | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |                                  |
|       | COMPONENTS   | 92                               |
| L346  |  | 92                               |
|       | ISOLATE MALFUNCTIONS IN PATCH PANELS   | 92                               |
| K275  |  |                                  |
|       | COMPONENTS   | 92                               |
| U692  | ADJUST AUDIO AMPLIFIER COMPONENTS  | 92                               |
|       | CLEAN MAINTENANCE WORK AREAS   | 89                               |
|       | PERFORM CORROSION CONTROL  | 89                               |
| I219  |  |                                  |
|       | OTHER THAN SOLDERING   | 89                               |
| K292  |  | 89                               |
| I218  |  |                                  |
|       | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 89                               |
| K306  | ISOLATE MALFUNCTIONS IN SOLID STATE FM RECEIVERS   | 89                               |
|       | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 89                               |
|       | INSTALL OR REMOVE MOUNTING HARDWARE  | 87                               |
|       | ADJUST PRESELECTOR COMPONENTS  | 87                               |
| K285  | ADJUST SIDEBAND DEMODULATOR OR BALANCED MIXER COMPONENTS   | 87                               |
|       | ADJUST LOCAL OSCILLATOR COMPONENTS   | 87                               |
|       | ADJUST LIMITER COMPONENTS  | 87                               |
|       | ADJUST TRANSMITTER OR EXCITER INTERMEDIATE FREQUENCY (IF)  | •                                |
|       | AMPLIFIER COMPONENTS   | 87                               |
| K305  |  |                                  |
|       | DISCRIMINATORS   | 87                               |
| U717  |  | 87                               |
| U694  | ADJUST AUTOMATIC FREQUENCY CONTROL (AFC) COMPONENTS  | 87                               |
| U712  | ADJUST LINE AMPLIFIER COMPONENTS   | 87                               |
| 1221  |  | 87                               |
| G156  | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,                                      |                                  |
|       | TO DETERMINE POSITIONERY OPERATION OF CICNAL OSALITY   | 0/.                              |
| K311  | ISOLATE MALFUNCTIONS IN SOLID STATE RECEIVE IF AMPLIFIERS  | 84                               |
| M424  | ISOLATE MALFUNCTIONS IN SOLID STATE RECEIVE IF AMPLIFIERS ADJUST PILOT TONE AMPLIFIER COMPONENTS | 84                               |
| K335  | PERFORM PMIs ON FM RECEIVERS   | 84                               |
|       | ISOLATE MALFUNCTIONS IN SOLID STATE AGCS   | 84                               |
|       | ADJUST SQUELCH CIRCUIT COMPONENTS  | 84                               |
|       | AD HIST POWER MONITORS   | 84                               |

# REPRESENTATIVE TASKS PERFORMED BY JUNIOR GROUND RADIO MAINTENANCE PERSONNEL (GRP257, N=22)

| TASKS        |  | PERCENT<br>MEMBERS<br>PERFORMING |
|--------------|--|----------------------------------|
| G165         | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
| 0103         | QUALITY  | 95                               |
| W836         | CLEAN MAINTENANCE WORK AREAS   | 91                               |
|              | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 91                               |
|              | PERFORM CORROSION CONTROL  | 77                               |
|              | ADJUST AUTOMATIC GAIN CONTROL (AGC) COMPONENTS   | 77                               |
| G156         | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,  |                                  |
|              | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 73                               |
| 1215         |  |                                  |
|              | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICROMINIATURE COMPONENTS USING SOLDERING METHODS | 73                               |
| K286         | ADJUST SQUELCH CIRCUIT COMPONENTS  | 73                               |
|              | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 68                               |
|              | PERFORM PREVENTIVE MAINTENANCE INSPECTIONS (PMI) ON AM   |                                  |
|              | RECEIVERS  | 50                               |
| W852         | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR  | -                                |
|              | PASSENGER VEHICLES   | 50                               |
| I219         | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   |                                  |
|              | OTHER THAN SOLDERING   | 50                               |
| K284         | ADJUST RECEIVE INTERMEDIATE FREQUENCY (IF) AMPLIFIER   |                                  |
|              | COMPONENTS   | 50                               |
| L409         | PERFORM PMIs ON AM UHF TRANSMITTERS OR EXCITERS  | 45                               |
|              | MAKE ENTRIES ON MAINTENANCE FORMS  | 45                               |
| K291         | ALIGN AM RECEIVERS   | 45                               |
| G162         | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS      | 45                               |
| K272         | ADJUST AMPLITUDE MODULATION (AM) DETECTOR COMPONENTS   | 45                               |
| I 192        | CRATE OR UNCRATE COMPONENTS OR MODULES   | 41                               |
| L359         | ALIGN AM UHF TRANSMITTERS OR EXCITERS  | 36                               |
| K289         | ADJUST ULTRA HIGH FREQUENCY (HF) RECEIVE RF AMPLIFIER  |                                  |
|              | COMPONENTS   | 36                               |
| L355         | ADJUST ULTRA HIGH FREQUENCY (UHF) POWER AMPLIFIER  |                                  |
|              | COMPONENTS   | 36                               |
| F142         | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES   | 36                               |
| K303         | ISOLATE MALFUNCTIONS IN SOLID STATE AM RECEIVERS   | 32                               |
|              | ISOLATE MALFUNCTIONS IN SYSTEMS TO SPECIFIC EQUIPMENT  | 32                               |
| L368         | ISOLATE MALFUNCTIONS IN AM SOLID STATE UHF TRANSMITTERS OR   |                                  |
|              | EXCITERS   | 32                               |
| 1224         | SPLICE WIRING OR CABLES  | 32                               |
| D89          | CONDUCT OJT  | 32                               |
| <b>W8</b> 53 |  | 27                               |
| A3           | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES  | 27                               |
| K276         |  | 27                               |
| 1220         |  | 27                               |
| I 195        |  | 27                               |
| I 193        |  |                                  |
|              | BOXES  | 27                               |
| A5           | DETERMINE WORK PRIORITIES  | 27                               |

# REPRESENTATIVE TASKS PERFORMED BY COMMUNICATIONS-ELECTRONICS PERSONNEL (GRP434, N=11)

| TASKS       |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------------|--|----------------------------------|
| P546        | ISOLATE MALFUNCTIONS IN RECORDERS OR REPRODUCERS   | 100                              |
| P540        | ADJUST RECORDER OR REPRODUCER SUBASSEMBLIES OR COMPONENTS  | 100                              |
|             | CLEAN MAINTENANCE WORK AREAS   | 91                               |
|             | PERFORM CORROSION CONTROL  | 91                               |
| I191        | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 91                               |
| I 196       | INSTALL OR REMOVE MOUNTING HARDWARE  | 91                               |
| P547        | MECHANICALLY ALIGN RECORDERS OR REPRODUCERS  | 82                               |
| I217        | REMOVE OR REPLACE ELECTRONIC MICROMINIATURE COMPONENTS   |                                  |
|             | USING SOLDERING METHODS  | 82                               |
| I219        | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES USING METHODS   |                                  |
|             | OTHER THAN SOLDERING   | 82                               |
| I215        | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-  |                                  |
|             | MINIATURE COMPONENTS USING SOLDERING METHODS   | 82                               |
| P541        | ELECTRICALLY ALIGN RECORDERS OR REPRODUCERS  | 82                               |
|             | ADJUST AUDIO AMPLIFIER COMPONENTS  | 82                               |
| G165        | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 73                               |
| T216        | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-  | 73                               |
| 1210        | MINIATURE COMPONENTS USING METHODS OTHER THAN SOLDERING  | 73                               |
| 1224        | SPLICE WIRING OR CABLES  | 73<br>73                         |
|             | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT   | 73<br>73                         |
|             | REMOVE OR REPLACE ELECTRONIC SUBASSEMBLIES, SUCH AS MODULES  | 73                               |
| 1210        | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 73                               |
| 1207        | PERFORM SAFETY INSPECTIONS   | 64                               |
|             | INSPECT SAFETY OF EQUIPMENT  | 64                               |
|             | PERFORM PMIs ON RECORDERS OR REPRODUCERS   | 64                               |
|             | PERFORM SYSTEM MODIFICATIONS   | 64                               |
|             | ALIGN SPEAKER SYSTEMS  | 64                               |
| G156        |  | •                                |
|             | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY   | 64                               |
| U755        | ISOLATE MALFUNCTIONS IN SOLID STATE AUDIO AMPLIFIERS ISOLATE MALFUNCTIONS IN SPEAKER SYSTEMS   | 64                               |
| U770        | ISOLATE MALFUNCTIONS IN SPEAKER SYSTEMS  | 64                               |
| P539        | ADJUST PUBLIC ADDRESS SYSTEM COMPONENTS  | 64                               |
| P545        | ISOLATE MALFUNCTIONS IN SPEAKER SYSTEMS ADJUST PUBLIC ADDRESS SYSTEM COMPONENTS ISOLATE MALFUNCTIONS IN PUBLIC ADDRESS SYSTEMS ADJUST GENERAL PURPOSE POWER SUPPLY COMPONENTS PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES RIIN TEST TAPES | 64                               |
| U710        | ADJUST GENERAL PURPOSE POWER SUPPLY COMPONENTS   | 64                               |
| F142        | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES   | 64                               |
| G166        | RUN TEST TAPES   | 55                               |
|             | REMOVE OR REPLACE ELECTROMECHANICAL SUBASSEMBLIES USING  |                                  |
|             | METHODS OTHER THAN SOLDERING   | 55                               |
| W852        |  |                                  |
|             | PASSENGER VEHICLES   | 55                               |
| <b>I220</b> | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 55                               |

### REPRESENTATIVE TASKS PERFORMED BY QUALITY CONTROL PERSONNEL (GRP117, N=121)

| TASKS      |   | PERCENT<br>MEMBERS<br>PERFORMING |
|------------|---|----------------------------------|
| C66        | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  | 82                               |
| <b>C64</b> |   | 80                               |
|            | WRITE CORRESPONDENCE  | 79                               |
| C71        | EVALUATE INSPECTION REPORTS OR PROCEDURES   | 76                               |
|            | SCHEDULE INSPECTIONS  | 69                               |
| C68        | EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR  |                                  |
|            | REPORTS   | 67                               |
| E123       | PREPARE EVALUATION REPORTS  | 66                               |
| A3         | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 64                               |
| E121       | PREPARE ACTIVITY REPORTS  | 58                               |
|            | DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES   | 58                               |
| C73        |   | 30                               |
| C/3        | SUPPLIES  | 56                               |
| <b>411</b> | ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI),  | 30                               |
|            | OR STANDARD OPERATING PROCEDURES (SOP)  | 53                               |
| E122       | PREPARE DEFICIENCY REPORTS  | 52                               |
| B45        | INTERPRET POLICIES, DIRECTIVES, PROCEDURES FOR SUBORDINATES   |                                  |
|            | MAINTAIN CORRESPONDENCE FILES   | 49                               |
| C75        |   | 47                               |
| A9         | DRAFT SUPPLEMENTS OR CHANGES TO DIRECTIVES  | 47                               |
| A7         |   |                                  |
| C65        | DEVELOP WORK METHODS OR PROCEDURES EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES         | s 45                             |
| C85        | WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS  | 45                               |
| D97        |   | 5                                |
|            | INFORMATION   | 44                               |
| E116       | MAINTAIN PUBLICATION FILES  | 42                               |
|            | EVALUATE PROCEDURES FOR STORAGE, INVENTORY, OR INSPECTION   |                                  |
| -, .       | AR PROPERMY YEARING   | 40                               |
| I 195      | INSPECT SAFETY OF EQUIPMENT   | 40                               |
| E118       | INSPECT SAFETY OF EQUIPMENT MAINTAIN TECHNICAL ORDER (TO) FILES PLAN BRIEFINGS PERFORM SAFETY INSPECTIONS | 40                               |
|            | PLAN BRIEFINGS  | 40                               |
|            | PERFORM SAFETY INSPECTIONS  | 39                               |
| F145       | REVIEW TABLE OF ALLOWANCES (TA)   | 37                               |
|            | EVALUATE TRAINING METHODS OF TECHNIQUES   | 36                               |
| A4         | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,   |                                  |
| P107       | OR SUPPLIES   | 36<br>26                         |
| E120       | PREPARE REQUISITIONS FOR TECHNICAL ORDERS   | 36<br>36                         |
| BZY        | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS DETERMINE WORK PRIORITIES                      | 36<br>25                         |
|            |   |                                  |
| C61        | ANALYZE WORKLOAD REQUIREMENTS   | 34                               |

### REPRESENTATIVE TASKS PERFORMED BY FIRSTLINE MAINTENANCE SUPERVISORS (GRP393, N=148)

| TASKS        |   | PERCENT<br>MEMBERS<br>PERFORMING |
|--------------|---|----------------------------------|
| <b>A</b> 5   | DETERMINE WORK PRIORITIES                                     | 95                               |
| D97          | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL           |                                  |
|              | INFORMATION   | 95                               |
| D89          | CONDUCT OJT   | 94                               |
|              | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS    | 91                               |
|              | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL        |                                  |
|              | QUALITY   | 91                               |
| D107         | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS                  | 89                               |
|              | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES                       | 89                               |
|              | MAKE ENTRIES ON MAINTENANCE FORMS                             | 88                               |
| C82          | PREPARE APRS  | 88                               |
| A3           | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES       | 88                               |
|              | COUNSEL TRAINEES ON TRAINING PROGRESS                         | 88                               |
| F142         | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES            | 87                               |
| F141         | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN           | 84                               |
|              | PERFORM TURN-ON OR TURN-OFF PROCEDURES                        | 84                               |
| A19          | PLAN WORK ASSIGNMENTS   | 82                               |
| D9 1         | CONDUCT PROFICIENCY TRAINING                                  | 82                               |
| B45          | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATE | S 82                             |
| A7           | DEVELOP WORK METHODS OR PROCEDURES                            | 82                               |
| D95          | CONDUCT UPGRADE TRAINING                                      | 80                               |
|              | DETERMINE OJT TRAINING REQUIREMENTS                           | 79                               |
| I 195        | INSPECT SAFETY OF EQUIPMENT                                   | 78                               |
| G156         |   |                                  |
|              | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY            | 78                               |
| I207         | PERFORM SAFETY INSPECTIONS                                    | 78                               |
| A12          | ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES              | 76                               |
| A4           | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,       |                                  |
|              | OR SUPPLIES   | 76                               |
|              | PERFORM CORROSION CONTROL                                     | 76                               |
| 1215         | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-     |                                  |
|              | MINIATURE COMPONENTS USING SOLDERING METHODS                  | 76                               |
|              | MAINTAIN HISTORICAL RECORDS                                   | 74                               |
|              | SCHEDULE LEAVES OR PASSES                                     | 74                               |
| I 191        | CONSTRUCT SHOP CABLES OR TEST PLUGS                           | 74                               |
| <b>W8</b> 52 | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR         |                                  |
|              | PASSENGER VEHICLES  | 74                               |
|              | CLEAN MAINTENANCE WORK AREAS                                  | 73                               |
| F144         | RESEARCH SUPPLY CATALOGS                                      | 72                               |
| R117         | MAINTAIN STATUS BOARDS OR CHARTS                              | 72                               |

# REPRESENTATIVE TASKS PERFORMED BY NCOICs, JOB CONTROL (GRP564, N=41)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
|       | MAINTAIN STATUS BOARDS OR CHARTS   | 100                              |
| B33   | DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,  |                                  |
|       | OR CHARTS  | 95                               |
| A3    | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES  | 95                               |
| A5    |  | 93                               |
| B29   |  |                                  |
|       | MAKE ENTRIES ON MAINTENANCE FORMS  | 83                               |
| B45   | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR  | 00                               |
| can   | SUBORDINATES   | 83                               |
| C82   |  | 83                               |
|       | WRITE CORRESPONDENCE   | 78<br>76                         |
|       | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS   | 76                               |
|       | PLAN BRIEFINGS ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (01),  | 73                               |
| WII   | OR STANDARD OPERATING PROCEDURES (SOP)   | 73                               |
| B28   |  | 13                               |
| D20   | APPROPRIATE AGENCIES   | 73                               |
| D89   |  | 68                               |
|       | CONDUCT PROFICIENCY TRAINING   | 68                               |
|       | COMPILE MAINTENANCE DATA   | 66                               |
| A7    | DEVELOP WORK METHODS OR PROCEDURES   | 66                               |
|       | SCHEDIILE LEAVES OF DASSES   | 66                               |
| D97   |  | 00                               |
| 27.   | INFORMATION  | 63                               |
| R114  |  | -                                |
| A12   | ESTABLISH PERFORMANCE STANDARDS FOR SURORDINATES   | 63                               |
| R127  | MAINTAIN CORRESPONDENCE FILES ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES PREPARE STATUS REPORTS  | 61                               |
| B30   | DIRECT CONTROL OF CLASSIFIED MATERIALS   | 61                               |
|       | PLAN WORK ASSIGNMENTS  | 61                               |
| B55   |  |                                  |
|       | 304X4, OR 304X6  | 56                               |
| B47   | MAINTAIN CONTINGENCY PLANS   | 54                               |
|       | COUNSEL TRAINEES ON TRAINING PROGRESS  | 54                               |
| E116  | MAINTAIN PUBLICATION FILES   | 51                               |
| A9    | DRAFT SUPPLEMENTS OR CHANGES TO DIRECTIVES   | 49                               |
| A2    | ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL   | 49                               |
| B35   | MAINTAIN CONTINGENCY PLANS COUNSEL TRAINES ON TRAINING PROGRESS MAINTAIN PUBLICATION FILES DRAFT SUPPLEMENTS OR CHANGES TO DIRECTIVES ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL OPDER FILES |                                  |
|       | ILCHAICAL CHOIM FILES  | 70                               |
|       | INDORSE AIRMAN PERFORMANCE REPORTS (APR)   | 46                               |
| C68   |  |                                  |
|       | REPORTS  | 44                               |
| C79   | EVALUATE WORK SCHEDULES  | 41                               |
| D98   | DETERMINE OUT TRAINING REQUIREMENTS  | 41                               |

# REPRESENTATIVE TASKS PERFORMED BY RADIO MAINTENANCE SUPERVISORS (GRP650, N=160)

| TASKS      |   | PERCENT<br>MEMBERS<br>PERFORMING |
|------------|---|----------------------------------|
| A3         | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 98                               |
| B29<br>B45 | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR                  | 96                               |
| 545        | SUBORDINATES  | 94                               |
| C82        | PREPARE APRS  | 94                               |
| A4         | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR  | 89                               |
| A 2 E      | SUPPLIES SCHEDULE LEAVES OR PASSES  | 89                               |
| A25<br>A2  | ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL  | 89                               |
|            |   | 88                               |
|            | DETERMINE WORK PRIORITIES PLAN WORK ASSIGNMENTS   | 87                               |
| A19        |   |                                  |
| AI         | ASSIGN PERSONNEL TO DUTY POSITIONS ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES EVALUATE INSPECTION PEROPES OF PROCEDURES | 87<br>86                         |
| A12        | ESTABLISH PERFORMANCE STANDARDS FOR SUBURDINATES  |                                  |
| C/1        | EVALUATE INSPECTION REPORTS ON PROCEDURES   | 83                               |
| A/         | DEVELOP WORK METHODS OR PROCEDURES  | 83                               |
|            | INDORSE AIRMAN PERFORMANCE REPORTS (APR)  | 79                               |
|            | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  | 77                               |
|            | MAINTAIN CORRESPONDENCE FILES   | 77                               |
| D96        | • · · · · · · · · · · · · · · · · · · ·   | 77                               |
| A11        | ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI),  |                                  |
|            | OR STANDARD OPERATING PROCEDURES (SOP)  | 76                               |
| C73        | EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR   |                                  |
|            | SUPPLIES  | 75                               |
| D87        |   | 75                               |
| D98        | DETERMINE OJT TRAINING REQUIREMENTS   | 74                               |
| B35        | DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR   |                                  |
|            | TECHNICAL ORDER FILES   | 74                               |
| C66        | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  | 72                               |
| D97        | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL   |                                  |
|            | INFORMATION   | 71                               |
| C83        | SELECT INDIVIDUALS FOR SPECIALIZED TRAINING   | 71                               |
| <b>B44</b> | INITIATE PERSONNEL ACTION REQUESTS  | 71                               |
| B41        | IMPLEMENT SAFETY PROGRAMS   | 70                               |
| C68        | EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS  | 69                               |
| C70        |   | 69                               |
|            | EVALUATE WORK SCHEDULES   | 66                               |
|            | ESTABLISH EQUIPMENT MAINTENANCE REQUIREMENTS  | 66                               |
|            | ANALYZE WORKLOAD REQUIREMENTS   | 66                               |
|            | MAINTAIN STATUS BOARDS OR CHARTS  | 90                               |
| C69        | •   | 44                               |
| B33        | RECLASSIFICATION DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,  | 66                               |
|            | OR CHARTS   | 66                               |
| CEL        | EUATHATE CADABITITY OF FOILDMENT  | 65                               |

# REPRESENTATIVE TASKS PERFORMED BY RESIDENT TRAINING SUPERVISORS (GRP711, N=10)

| TASKS      |   | PERCENT<br>MEMBERS<br>PERFORMING |
|------------|---|----------------------------------|
| B29        | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS  | 100                              |
| D106       | EVALUATE TRAINING METHODS OR TECHNIQUES   | 100                              |
| D107       | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  | 100                              |
| C82        | EVALUATE TRAINING METHODS OR TECHNIQUES MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS PREPARE APRS ASSIGN RESIDENT COURSE INSTRUCTORS CONDUCT RESIDENT COURSE CLASSROOM TRAINING EVALUATE PROGRESS OF STUDENTS COUNSEL TRAINEES ON TRAINING PROGRESS ADMINISTER TESTS  | 100                              |
| D88        | ASSIGN RESIDENT COURSE INSTRUCTORS  | 100                              |
| D93        | CONDUCT RESIDENT COURSE CLASSROOM TRAINING  | 100                              |
| D105       | EVALUATE PROGRESS OF STUDENTS   | 90                               |
| D96        | COUNSEL TRAINEES ON TRAINING PROGRESS   | 90                               |
| D86        | ADMINISTER TESTS  | 90                               |
| A19        | PLAN WORK ASSIGNMENTS   | 90                               |
| A3         | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 90                               |
| A25        | SCHEDULE LEAVES OR PASSES   | 90                               |
| A1         | ASSIGN PERSONNEL TO DUTY POSITIONS  | 90                               |
| A4         | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,   |                                  |
|            | OR SUPPLIES   | 90                               |
| D109       | SCORE TESTS   | 80                               |
| C66        | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  | 80                               |
| A7         | DEVELOP WORK METHODS OR PROCEDURES  | 80                               |
| D99        | DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS   | 70                               |
| D108       | PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT  | 70                               |
| D91        | CONDUCT PROFICIENCY TRAINING  | 70                               |
| A12<br>B45 | SCORE TESTS  EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  DEVELOP WORK METHODS OR PROCEDURES  DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS  PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT  CONDUCT PROFICIENCY TRAINING  ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES  INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR  SUBORDINATES | 70                               |
|            | SUBORDINATES  | 70                               |
| C71        | EVALUATE INSPECTION REPORTS OR PROCEDURES   | 70                               |
| A2         | EVALUATE INSPECTION REPORTS OR PROCEDURES ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL  | 70                               |
| D110       | WRITE TEST QUESTIONS  | 60                               |
| B52        | SUPERVISE CIVILIAN PERSONNEL  | 60                               |
| C84        | WRITE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY APPRAISALS  | 60                               |
| B60        | WRITE CORRESPONDENCE  | 60                               |
| E114       | MAINTAIN CORRESPONDENCE FILES   | 60                               |
| C83        | SELECT INDIVIDUALS FOR SPECIALIZED TRAINING   | 60                               |
| <b>D95</b> | CONDUCT UPGRADE TRAINING  | 60                               |
|            | PLAN BRIEFINGS  | 60                               |
| A5         | DETERMINE WORK PRIORITIES   | 60                               |
| A11        | ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP)   | 60                               |
| D101       | DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE (CDC)  | 50                               |

# REPRESENTATIVE TASKS PERFORMED BY TOOL CRIB SUPERVISORS (GRP442, N=12)

| TASKS       |   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------------|---|----------------------------------|
| F142        | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES  | 100                              |
| C82         | PREPARE APRS  | 100                              |
| A5          | DETERMINE WORK PRIORITIES   | 100                              |
|             | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN   | 92                               |
| B29         | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS                                      | 92                               |
| B46         | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES   | 83                               |
|             | OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR   |                                  |
|             | PASSENGER VEHICLES  | 83                               |
| A3          | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 83                               |
|             | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES                                  |                                  |
|             | MAINTAIN HISTORICAL RECORDS   | 75<br>75                         |
|             | MAINTAIN STATUS BOARDS OR CHARTS  | 75<br>75                         |
|             | PLAN WORK ASSIGNMENTS  PLETPLINE CORRESPONDENCE TECHNICAL INFORMATION OF                        | 75                               |
| £113        | DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES                                 | 67                               |
|             | DIRECT SUPPLY FUNCTIONS OR TOOL CRIB OPERATIONS   | 67                               |
|             | RESEARCH SUPPLY CATALOGS  | 67                               |
|             | MAINTAIN OFFICE SUPPLIES  | 67                               |
|             | MAKE ENTRIES ON MAINTENANCE FORMS   | 67                               |
|             | MAINTAIN CORRESPONDENCE FILES   | 58                               |
| F128        | COORDINATE EQUIPMENT CALIBRATION WITH PRECISION MEASUREMENT                                     |                                  |
|             | EQUIPMENT LABORATORIES (PMEL)   | 58                               |
| F134        | MAINTAIN BENCHSTOCKS  | 58                               |
| B34         | DIRECT MAINTENANCE CREW ACTIVITIES  | 58                               |
| B35         | DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR   |                                  |
|             | TECHNICAL ORDER FILES   | 58                               |
| D97         | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL   |                                  |
|             | INFORMATION   | 58                               |
| D96         |   | 58                               |
|             | PERFORM SAFETY INSPECTIONS  | 58                               |
|             | REVIEW TABLE OF ALLOWANCES (TA)   | 58                               |
| A2          | ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL  | 58                               |
| E112        | · · · · · · · · · · · · · · · · · · ·   | 50                               |
| B56         | SUPERVISE RADIO RELAY EQUIPMENT (WIDEBAND COMMUNICATIONS  | 50                               |
| <b>B</b> 33 | EQUIPMENT) SPECIALISTS (AFSC 30450) DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS, | 30                               |
| <b>DJ</b> J | OR CHARTS   | 50                               |
| W848        | MAINTAIN TOOL CRIBS   | 50                               |
|             | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  | 50<br>50                         |
| C73         | EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR   | J0                               |
|             | SUPPLIES  | 50                               |
| F139        | MAINTAIN PMEL CALIBRATION CHARTS  | 42                               |
| A4          | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,   |                                  |
|             | OR SUPPLIES   | 42                               |

### REPRESENTATIVE TASKS PERFORMED BY FIXED ENGINERING AND INSTALLATION PERSONNEL (GRP154, N=40)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| V820  | INSTALL OR REMOVE FIXED COMMUNICATION EQUIPMENT  | 88                               |
|       |  | 72                               |
| V808  | ASSEMBLE SYSTEMS OR SUBSYSTEMS FROM COMPONENTS PARTS   | 70                               |
| I 205 | LACE CABLE ASSEMBLIES OR INTERNAL WIRING   | 67                               |
|       | CLEAN MAINTENANCE WORK AREAS   | 57                               |
|       | INSTALL OR REMOVE COMMUNICATIONS OR CONTROL TOWERS   | 50                               |
| W852  |  |                                  |
|       | PASSENGER VEHICLES   | 50                               |
|       | SPLICE WIRING OR CABLES  | 50                               |
|       | CONSTRUCT SHOP CABLES OR TEST PLUGS  | 47                               |
|       | CRATE OR UNCRATE COMPONENTS OR MODULES   | 45                               |
| I215  | REMOVE OR REPLACE ELCTRONIC COMPONENTS OTHER THAN  |                                  |
|       | MICROMINIATURE COMPONENTS USING SOLDERING METHODS  | 45                               |
| V835  |  |                                  |
|       | INSTALLED EQUIPMENT  | 38                               |
|       | CONSTRUCT CABLE TROUGHS  | 38                               |
|       | PAINT EQUIPMENT OR FACILITIES  | 35                               |
| V822  | INSTALL OR REMOVE INTERMEDIATE DISTRIBUTION FRAMES (IDF)   | 35                               |
|       | INSTALL OR REMOVE MAIN DISTRIBUTION FRAMES (MDF)   | 32                               |
|       | REMOVE OR REPLACE MECHANICAL COMPONENTS  | 32                               |
| I221  |  | 32                               |
| I218  | REMOVE OR REPLACE ELECTONIC SUBASSEMBLIES, SUCH AS MODULES   |                                  |
|       | OR PRINTED CIRCUIT BOARDS, USING SOLDERING METHODS   | 32                               |
| I219  |  |                                  |
|       | OTHER THAN SOLDERING   | 32                               |
| I216  | REMOVE OR REPLACE ELECTRONIC COMPONENTS OTHER THAN MICRO-  |                                  |
|       | MINIATURE COMPONENTS USING METHODS OTHER THAN SOLDERING  | 30                               |
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL   |                                  |
|       | QUALITY  | 30                               |
|       | CONSTRUCT INTERCONNECTS  | 27                               |
|       | PERFORM TURN-ON OR TURN-OFF PROCEDURES   | 27                               |
|       | INSPECT SAFETY OR EQUIPMENT  | 25                               |
|       | PERFORM SYSTEM MODIFICATIONS   | 25                               |
| B46   | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES  | 25                               |
|       | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT   | 22                               |
| I213  |  |                                  |
|       | METHODS OTHER THAN SOLDERING   | 20                               |
|       | PERFORM CORROSION CONTROL  | 17                               |
|       | CHECK LAND LINE CONNECTIONS  | 17                               |
| 1207  | PERFORM SAFETY INSPECTIONS   | 17                               |
| V823  | INSTALL OR REMOVE LINE CONDITIONING EQUIPMENT  | 17                               |
| I212  | INSTALL OR REMOVE LINE CONDITIONING EQUIPMENT REMOVE OR REPLACE ELECTROMECHANICAL COMPONENTS USING |                                  |
|       | METHODS OTHER THAN SOLDERING   | 15                               |
| 1200  | POSITION SAFFTY FOUITPMENT   | 15                               |

# REPRESENTATIVE TASKS PERFORMED BY RESIDENT TECHNICAL SCHOOL INSTRUCTORS (GRP243, N=77)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| D109  | SCORE TESTS  | 100                              |
| D93   | CONDUCT RESIDENT COURSE CLASSROOM TRAINING                         | 97                               |
| D86   |  | 95                               |
|       | EVALUATE PROGRESS OF STUDENTS                                      | 92                               |
| D96   |  | 79                               |
|       | WRITE TEST QUESTIONS   | 65                               |
|       | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS                       | 61                               |
| D97   | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL                | _                                |
|       | INFORMATION  | 58                               |
| D92   |  | 58                               |
| B29   |  | 56                               |
| B46   | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES                            | 48                               |
| D106  |  | 40                               |
|       | PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT                         | 29                               |
|       | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS                     | 25                               |
| D101  | DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE (CDC)         | 25                               |
| 02//  | CURRICULUM MATERIALS   | 25<br>25                         |
|       | PERFORM TURN-ON OR TURN-OFF PROCEDURES                             |                                  |
|       | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT                         | 22                               |
|       | CONDUCT PROFICIENCY TRAINING                                       | 19                               |
|       | DIRECT OR IMPLEMENT TRAINING PROGRAMS OTHER THAN OUT               | 18                               |
| G165  | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL             | 10                               |
| m./ m | QUALITY  | 18                               |
| B45   | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATE      | S 18                             |
| D99   |  | 17                               |
|       | INSPECT SAFETY OF EQUIPMENT  | 16                               |
|       | MAINTAIN TECHNICAL ORDER (TO) FILES                                | 13                               |
|       | EVALUATE CAPABILITY OF EQUIPMENT                                   | 13                               |
|       | WRITE TRAINING REPORTS   | 12                               |
|       | MAKE ENTRIES ON MAINTENANCE FORMS                                  | 12                               |
| B60   | WRITE CORRESPONDENCE   | 12                               |
| G156  |  |                                  |
|       | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY                 | 10                               |
| A7    | DEVELOP WORK METHODS OR PROCEDURES                                 | 10                               |
| A3    | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES            | 10                               |
|       | ALIGN FREQUENCY DIVISION MULTIPLEXERS                              | 10                               |
| A15   | PLAN BRIEFINGS   | 10                               |
| A4    | DETERMINE REQUIRMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR SUPPLIES | 9                                |
| R41   | IMPLEMENT CAFFTY PROGRAMS  | á                                |

# REPRESENTATIVE TASKS PERFORMED BY INSTRUCTORS AND MAINTENANCE PERSONNEL (GRP227, N=19)

| TASKS       |   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------------|---|----------------------------------|
|             | EVALUATE PROGRESS OF STUDENTS   | 95                               |
| D106        | EVALUATE TRAINING METHODS OR TECHNIQUES   | 95                               |
|             | ADMINISTER TESTS  | 89                               |
|             | PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT  | 89                               |
|             | CONDUCT REMEDIAL TRAINING   | 89                               |
|             | COUNSEL TRAINEES ON TRAINING PROGRESS   | 89                               |
|             | SCORE TESTS   | 89                               |
| G156        | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,   |                                  |
|             | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY  | 84                               |
|             | WRITE TEST QUESTIONS  | 84                               |
| G165        | READ METERS TO DETERMINE EQUIPMENT OPERATION OR SIGNAL  |                                  |
|             | QUALITY   | 84                               |
| D93         |   | 79                               |
|             | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  | 79                               |
| G164        | PERFORM TURN-ON OR TURN-OFF PROCEDURES  | 79                               |
| D91         |   | 68                               |
| D97         |   |                                  |
|             | INFORMATION INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES INSPECT SAFETY OF EQUIPMENT PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS DEVELOP WORK METHODS OR PROCEDURES PERFORM SAFETY INSPECTIONS WRITE TRAINING REPORTS CONFIGURE PATCH PANELS FOR ANALOG OPERATIONS EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS CONDUCT OJT | <b>68</b>                        |
| B46         | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES   | 68                               |
| B29         | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS  | 68                               |
| B45         | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATE   | 63                               |
| I 195       | INSPECT SAFETY OF EQUIPMENT   | 63                               |
| G162        | PERFORM PREOPERATIONAL CHECKS OF EQUIPMENT  | 53                               |
| D99         | DETERMINE RESIDENT COURSE TRAINING REQUIREMENTS   | 53                               |
| A7          | DEVELOP WORK METHODS OR PROCEDURES  | 53                               |
| <b>I207</b> | PERFORM SAFETY INSPECTIONS  | 53                               |
| D111        | WRITE TRAINING REPORTS  | 47                               |
| G146        | CONFIGURE PATCH PANELS FOR ANALOG OPERATIONS  | 47                               |
| C66         | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  | 42                               |
|             |   |                                  |
| D94         | CONDUCT SPECIAL TRAINING CONFERENCES OR BRIEFINGS   | 42                               |
| C64         | EVALUATE CAPABILITY OF EQUIPMENT  | 42                               |
| G155        | OBSERVE STATUS DISPLAY PANELS TO DETERMINE EQUIPMENT  |                                  |
|             | OPERATION OR SIGNAL QUALITY   | 42                               |
| A3          | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 42                               |
| N464        | ADJUST FREQUENCY SHIFT CONVERTER COMPONENTS   | 42                               |
| N463        | ADJUST FREQUENCY SHIFT KEYER COMPONENTS   | 42                               |
| D95         | CONDUCT UPGRADE TRAINING  | 37                               |
| G147        | CONFIGURE PATCH PANELS FOR DIGITAL OPERATIONS   | 37                               |

### REPRESENTATIVE TASKS PERFORMED BY JOB CONTROLLERS (GRP491, N=58)

| TASKS |  | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|--|----------------------------------|
| E117  | MAINTAIN STATUS BOARDS OR CHARTS   | 97                               |
| A5    | DETERMINE WORK PRIORITIES  | 88                               |
| A3    | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES  | 86                               |
|       | COMPILE MAINTENANCE DATA   | 69                               |
|       | PREPARE STATUS REPORTS   | 53                               |
| B28   |  | 33                               |
| 220   | APPROPRIATE AGENCIES   | 48                               |
| B33   |  | -,0                              |
|       | OR CHARTS  | 41                               |
| A15   | PLAN BRIEFINGS   | 40                               |
|       | DIRECT MAINTENANCE CREW ACTIVITIES   | 31                               |
|       | CONDUCT OJT  | 31                               |
|       | COORDINATE REPAIR OF EQUIPMENT WITH VENDORS OR OTHER AGENCIES  | 28                               |
|       | SECURE CLASSIFIED MATERIALS  | 28                               |
| B30   | DIRECT CONTROL OF CLASSIFIED MATERIALS   | 22                               |
|       | DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL  |                                  |
|       | INFORMATION  | 19                               |
| D107  | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS   | 17                               |
| C82   | PREPARE APRs   | 17                               |
| E116  | MAINTAIN PUBLICATION FILES   |                                  |
| B37   | MAINTAIN PUBLICATION FILES DIRECT PREMISSION CHECKOUT OF EQUIPMENT OR MATERIALS CLEAN MAINTENANCE WORK AREAS | 14                               |
| W836  | CLEAN MAINTENANCE WORK AREAS   | 14                               |
| A24   | SCHEDULE INSPECTIONS   | 14                               |
| W852  | OPERATE SMALL GOVERNMENT VEHICLES SUCH AS PICKUPS OR   | - 4                              |
|       | PASSENGER VEHICLES   | 14                               |
|       | MAINTAIN TECHNICAL ORDER (TO) FILES  | 10                               |
| A21   | PREPARE MAINTENANCE ACTIVITY SCHEDULES   | 10                               |
| E113  | DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR   |                                  |
| 201   | DIRECTIVES   | 10                               |
| D96   |  | 10                               |
|       | SCHEDULE USE OF EQUIPMENT  | 9                                |
| B55   | SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0,  | •                                |
|       | 304X4, OR 304X6  | 9                                |
| A4    | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR SUPPLIES  | 9                                |
| A19   |  | 9                                |
|       | ANALYZE WORKLOAD REQUIREMENTS  | 9                                |
| C64   | EVALUATE CAPABILITY OF EQUIPMENT   | 9                                |
| B29   | COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS   | 9                                |
| A22   |  | 9                                |
|       | ESTARIISH COMMUNICATION USED DETODITIES  | 7                                |

# REPRESENTATIVE TASKS PERFORMED BY PLANS AND SCHEDULING PERSONNEL (GRP481, N=14)

| TASKS       |   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------------|---|----------------------------------|
| B60         | WRITE CORRESPONDENCE  | 100                              |
| A3          | COORDINATE WORK ACTIVITIES WITH OTHER UNITS OR AGENCIES   | 93                               |
|             | COMPILE MAINTENANCE DATA  | 93                               |
| E113        | DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR  |                                  |
|             | DIRECTIVES  | 79                               |
| E114        | MAINTAIN CORRESPONDENCE FILES   | 71                               |
| A5          | DETERMINE WORK PRIORITIES   | 71                               |
| A24         | SCHEDULE INSPECTIONS  | 64                               |
| A21         | PREPARE MAINTENANCE ACTIVITY SCHEDULES  | 64                               |
| A11         | PREPARE MAINTENANCE ACTIVITY SCHEDULES ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (01), |                                  |
|             | OR STANDARD OPERATING PROCEDURES (SOP)  | 64                               |
| A26         | SCHEDULE USE OF EQUIPMENT   | 57                               |
| E117        | MAINTAIN STATUS BOARDS OR CHARTS  | 57                               |
| B33         | DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS  |                                  |
|             | OR CHARTS   | 57                               |
| A22         | PREPARE MAINTENANCE SCHEDULES   | 57                               |
| E116        | MAINTAIN PUBLICATION FILES  | 50                               |
| A7          | DEVELOP WORK METHODS OR PROCEDURES  | 50                               |
| E120        | MAKE ENTRIES ON MAINTENANCE FORMS   | 43                               |
| E118        | MAINTAIN TECHNICAL ORDER (TO) FILES   | 36                               |
| <b>B3</b> 5 | DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR   |                                  |
|             | TECHNICAL ORDER FILES   | 36                               |
|             | PREPARE STATUS REPORTS  | 36                               |
| C82         | PREPARE APRS  | 36                               |
|             | CONDUCT OJT   | 36                               |
| B46         | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES MAINTAIN HISTORICAL RECORDS                                 | 29                               |
| E115        | MAINTAIN HISTORICAL RECORDS   | 29                               |
| F130        | COORDINATE REPAIR OF EQUIPMENT WITH VENDORS OR OTHER AGENCIES                                       | 29                               |
| A9          |   | 29                               |
| D107        | MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  | 29                               |
| B29         |   | 29                               |
| B28         | COORDINATE CANNIBALIZATION OF EQUIPMENT PARTS WITH APPRO-   |                                  |
|             | PRIATE AGENCIES   | 29                               |
| <b>B</b> 45 | INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR   |                                  |
|             | SUBORDINATES  | 21                               |
| A19         | PLAN WORK ASSIGNMENTS   | 21                               |
| A15         | PLAN BRIEFINGS  | 21                               |
| C71         | EVALUATE INSPECTION REPORTS OR PROCEDURES   | 21                               |
| F138        | MAINTAIN OFFICE SUPPLIES  | 21                               |
| C61         | ANALYZE WORKLOAD REQUIREMENTS   | 21                               |

### REPRESENTATIVE TASKS PERFORMED BY SUPPLY PERSONNEL (GRP281, N=10)

| TASKS |   | PERCENT<br>MEMBERS<br>PERFORMING |
|-------|---|----------------------------------|
| P12/  | MAINTAIN DEMONGTOOVE  | 100                              |
|       | MAINTAIN BENCHSTOCKS RESEARCH SUPPLY CATALOGS                 | 90                               |
|       | PREPARE NONREPARABLE OR REPARABLE ITEMS FOR TURN-IN           | 90                               |
|       | PREPARE REQUISITIONS FOR PARTS, TOOLS, OR SUPPLIES            | 80                               |
| F 142 | INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES                       | 80                               |
| B38   | DIRECT SUPPLY FUNCTIONS OR TOOL CRIB OPERATIONS               | 60                               |
|       | MAINTAIN EQUIPMENT ACCOUNTABILITY RECORDS                     | 60                               |
|       | MAINTAIN PMEL CALIBRATION CHARTS                              | 60                               |
|       | MAINTAIN STATUS BOARDS OR CHARTS                              | 60                               |
| F129  |   | 00                               |
| F 129 | BASE SUPPLY   | 60                               |
| F137  |   | 50                               |
|       | COORDINATE EQUIPMENT CALIBRATION WITH PRECISION MEASUREMENT   | 30                               |
| F 120 | EQUIPMENT LABORATORIES (PMEL)                                 | 50                               |
| F140  |   | 30                               |
| F 140 | FORWARD SUPPLY POINTS   | 50                               |
| R37   | DIRECT PREMISSION CHECKOUT OF EQUIPMENT OR MATERIALS          | 50                               |
|       | MAINTAIN FORWARD SUPPLY POINTS                                | 40                               |
|       | MAINTAIN OFFICER SUPPLIES                                     | 40                               |
|       | MAKE ENTRIES ON MAINTENANCE FORMS                             | 40                               |
| D97   | ·   | 40                               |
| ופּע  | INFORMATION   | 40                               |
| E1/3  | PREPARE SUPPLY DIFFICULTY REPORTS, SUCH AS QUALITY DEFICIENCY |                                  |
| F 143 | REPORTS (QDRs)  | 40                               |
| A5    | DETERMINE WORK PRIORITIES                                     | 40                               |
|       | COORDINATE REPAIR OF EQUIPMENT WITH VENDORS OR OTHER AGENCIES |                                  |
|       | COMPILE MAINTENANCE DATA                                      | 30                               |
|       | CONSTRUCT SHOP CABLES OR TEST PLUGS                           | 30                               |
| F131  | COORDINATE SHIPPING OR RECEIVING WITH GOVERNMENT CALIBRATION  | 30                               |
| F 131 | FACILITIES  | 30                               |
| D89   |   | 30                               |
|       | PLAN BRIEFINGS  | 30                               |
| B49   | SUPERVISE APPRENTICE GROUND BASE RADIO COMMUNICATIONS         | 30                               |
| D47   | SPECIALISTS (AFSC 30434)                                      | 20                               |
| E110  | MAINTAIN TECHNICAL ORDER (TO) FILES                           | 20                               |
|       | REVIEW TABLE OF ALLOWANCES (TA)                               | 20                               |
| A4    | DETERMINE REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR    | 20                               |
| A4    | SUPPLIES  | 20                               |
| G164  | PERFORM TURN-ON OR TURN-OFF PROCEDURES                        | 20                               |
| A22   | PREPARE MAINTENANCE SCHEDULES                                 | 20                               |
| G156  | OBSERVE TEST EQUIPMENT, SUCH AS SCOPES OR SIGNAL ANALYZERS,   | 20                               |
| 0130  | TO DETERMINE EQUIPMENT OPERATION OR SIGNAL QUALITY            | 20                               |
| A26   | SCHEDULE USE OF EQUIPMENT                                     | 20                               |
| A26   | DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,   | 20                               |
| B33   | OR CHARTS   | 20                               |

# REPRESENTATIVE TASKS PERFORMED BY LIMITED EXPERIENCE QUALITY CONTROL PERSONNEL (GRP464, N=10)

| E188   | TASKS  |   | PERCENT<br>MEMBERS<br>PERFORMING |
|--|--------|---|----------------------------------|
| E116 MAINTAIN PUBLICATION FILES A3 COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES 60 C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS 50 E114 MAINTAIN CORRESPONDENCE FILES 50 E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B135 DIRECT HAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 6125 PREPARE REQUISITIONS FOR PUBLICATIONS 6113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 613 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 614 EVALUATE INSPECTION REPORTS OR PROCEDURES 615 EVALUATE INSPECTION REPORTS OR PROCEDURES 616 EVALUATION FOR SUPPLIES 617 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 618 INFORMATION 619 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 619 INFORMATION 610 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 620 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 621 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 622 REPORTS 623 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 624 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 625 REPORTS 626 EVALUATE CAPABILITY OF EQUIPMENT 627 PASSENGER VEHICLES 628 PAINT EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 639 PAINT EQUIPMENT OR FACILITIES 640 PAINT EQUIPMENT OR FACILITIES 651 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 662 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 663 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 664 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 665 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 666 DIRECTIONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 667 DIRECTIONS 668 DIRECT MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 DIRECTMENT OF FACILITIES 669 DIRECTMENT OF FACILITIES 660 DIRECTMENT OF FACILITIES 661 DIRECTMENT OF FACILITIES 662 DIRECTMENT OF FACILITIES 663 DIRECTMENT OF FAC | E188   | MAINTAIN TECHNICAL ORDER (TO) FILES                       | 90                               |
| E116 MAINTAIN PUBLICATION FILES A3 COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES 60 C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS 50 E114 MAINTAIN CORRESPONDENCE FILES 50 E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B135 DIRECT HAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 6125 PREPARE REQUISITIONS FOR PUBLICATIONS 6113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 613 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 614 EVALUATE INSPECTION REPORTS OR PROCEDURES 615 EVALUATE INSPECTION REPORTS OR PROCEDURES 616 EVALUATION FOR SUPPLIES 617 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 618 INFORMATION 619 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 619 INFORMATION 610 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 620 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 621 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 622 REPORTS 623 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 624 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 625 REPORTS 626 EVALUATE CAPABILITY OF EQUIPMENT 627 PASSENGER VEHICLES 628 PAINT EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 639 PAINT EQUIPMENT OR FACILITIES 640 PAINT EQUIPMENT OR FACILITIES 651 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 662 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 663 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 664 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 665 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 666 DIRECTIONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 667 DIRECTIONS 668 DIRECT MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 DIRECTMENT OF FACILITIES 669 DIRECTMENT OF FACILITIES 660 DIRECTMENT OF FACILITIES 661 DIRECTMENT OF FACILITIES 662 DIRECTMENT OF FACILITIES 663 DIRECTMENT OF FAC | E121   | PREPARE ACTIVITY REPORTS                                  | 90                               |
| E116 MAINTAIN PUBLICATION FILES A3 COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES 60 C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS 50 E114 MAINTAIN CORRESPONDENCE FILES 50 E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B135 DIRECT HAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 6125 PREPARE REQUISITIONS FOR PUBLICATIONS 6113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 613 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 614 EVALUATE INSPECTION REPORTS OR PROCEDURES 615 EVALUATE INSPECTION REPORTS OR PROCEDURES 616 EVALUATION FOR SUPPLIES 617 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 618 INFORMATION 619 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 619 INFORMATION 610 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 620 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 621 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 622 REPORTS 623 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 624 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 625 REPORTS 626 EVALUATE CAPABILITY OF EQUIPMENT 627 PASSENGER VEHICLES 628 PAINT EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 639 PAINT EQUIPMENT OR FACILITIES 640 PAINT EQUIPMENT OR FACILITIES 651 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 662 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 663 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 664 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 665 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 666 DIRECTIONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 667 DIRECTIONS 668 DIRECT MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 DIRECTMENT OF FACILITIES 669 DIRECTMENT OF FACILITIES 660 DIRECTMENT OF FACILITIES 661 DIRECTMENT OF FACILITIES 662 DIRECTMENT OF FACILITIES 663 DIRECTMENT OF FAC | E126   | PREPARE REQUISITIONS FOR TECHNICAL ORDERS                 | 90                               |
| E116 MAINTAIN PUBLICATION FILES A3 COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES 60 C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS 50 E114 MAINTAIN CORRESPONDENCE FILES 50 E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B135 DIRECT HAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 6125 PREPARE REQUISITIONS FOR PUBLICATIONS 6113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 613 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 614 EVALUATE INSPECTION REPORTS OR PROCEDURES 615 EVALUATE INSPECTION REPORTS OR PROCEDURES 616 EVALUATION FOR SUPPLIES 617 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 618 INFORMATION 619 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 619 INFORMATION 610 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 620 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 621 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 622 REPORTS 623 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 624 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 625 REPORTS 626 EVALUATE CAPABILITY OF EQUIPMENT 627 PASSENGER VEHICLES 628 PAINT EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 639 PAINT EQUIPMENT OR FACILITIES 640 PAINT EQUIPMENT OR FACILITIES 651 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 662 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 663 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 664 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 665 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 666 DIRECTIONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 667 DIRECTIONS 668 DIRECT MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 DIRECTMENT OF FACILITIES 669 DIRECTMENT OF FACILITIES 660 DIRECTMENT OF FACILITIES 661 DIRECTMENT OF FACILITIES 662 DIRECTMENT OF FACILITIES 663 DIRECTMENT OF FAC | A24    | SCHEDULE INSPECTIONS                                      | 90                               |
| E116 MAINTAIN PUBLICATION FILES A3 COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES 60 C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS 50 E114 MAINTAIN CORRESPONDENCE FILES 50 E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B135 DIRECT HAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 6125 PREPARE REQUISITIONS FOR PUBLICATIONS 6113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 613 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES 614 EVALUATE INSPECTION REPORTS OR PROCEDURES 615 EVALUATE INSPECTION REPORTS OR PROCEDURES 616 EVALUATION FOR SUPPLIES 617 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 618 INFORMATION 619 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL 619 INFORMATION 610 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 620 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 621 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 622 REPORTS 623 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 624 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 625 REPORTS 626 EVALUATE CAPABILITY OF EQUIPMENT 627 PASSENGER VEHICLES 628 PAINT EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR 639 PAINT EQUIPMENT OR FACILITIES 640 PAINT EQUIPMENT OR FACILITIES 651 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 662 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 663 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 664 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 665 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 666 DIRECTIONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL 667 DIRECTIONS 668 DIRECT MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 668 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 667 DIRECTIONS 667 DIRECTMENT OF FACILITIES 668 DIRECTMENT OF FACILITIES 669 DIRECTMENT OF FACILITIES 660 DIRECTMENT OF FACILITIES 661 DIRECTMENT OF FACILITIES 662 DIRECTMENT OF FACILITIES 663 DIRECTMENT OF FAC | E123   | PREPARE EVALUATION REPORTS                                | 80                               |
| COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES  60  C66  EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS  50  E1124  PREPARE DEFICIENCY REPORTS  50  B60  WAITE CORRESPONDENCE  B35 DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR  TECHNICAL ORDER FILES  60  E125 PREPARE REQUISITIONS FOR PUBLICATIONS  E113 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR  DIRECTIVES  61 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR  DIRECTIVES  62 EVALUATE INSPECTION REPORTS OR PROCEDURES  64 DIAMAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  65 DIAMAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  66 DIAMAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  67 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION  68 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING  68 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING  69 STANDARD OPERATING PROCEDURES (SOP)  60 OPERATE SHALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR  PASSENGER VEHICLES  60 PASSENGER VEHICLES  61 SETABLISH PUBLICATION LIBRARIES  62 OPERATE SHALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR  PASSENGER VEHICLES  61 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO,  304X4, OR 304X6  62 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL  DISCREPANCIES  61 DISCREPANCIES  62 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL  DISCREPANCIES  63 DISCREPANCIES  64 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  65 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  66 PERFORM SAFETY INSPECTIONS  66 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  60 DIAMONTO DEPARTOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS   | D116   | MATHEMATH DIEDLY CAMPON TITES                             | 30                               |
| C66 EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS E114 MAINTAIN CORRESPONDENCE FILES E122 PREPARE DEFICIENCY REPORTS E126 PREPARE DEFICIENCY REPORTS E127 PREPARE DEFICIENCY REPORTS E128 DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES E129 PREPARE REQUISITIONS FOR PUBLICATIONS E130 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES EVALUATE INSPECTION REPORTS OR PROCEDURES EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES EVALUATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (01), OR STANDARD OPERATING PROCEDURES (SOP) EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS EVALUATE CAPABILITY OF EQUIPMENT EVALUATE CAVES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  EVALUATE CONTRACTORY EXPERIENCES EVALUATE CONTRACTORY EXPERIENCES EVALUATE CONTRACTORY EXPERIENCES EVAL | A3     | COORDINATE WORK ACTIVITIES WITH OTHE UNITS OR AGENCIES    | 60                               |
| E114 MAINTAIN CORRESPONDENCE FILES E122 PREPARE DEFICIENCY REPORTS 50 B60 WRITE CORRESPONDENCE B35 DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES 40 E125 PREPARE REQUISITIONS FOR PUBLICATIONS DIRECTIVES 40 C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40 C73 EVALUATE INSPECTION REPORTS OR PROCEDURES 40 D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30 D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (01), OR STANDARD OPERATING PROCEDURES (SOP) 30 C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20 C64 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20 W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20 W853 PAINT EQUIPMENT OR FACILITIES 30 B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6 10 C65 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10 C67 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10 W855 PERFORM SAFETY INSPECTIONS 10 W855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10  | C66    | EVALUATE COMPLIANCE WITH PERFORMANCE STANDARDS            |                                  |
| E122 PREPARE DEFICIENCY REPORTS B60 WRITE CORRESPONDENCE B35 DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR TECHNICAL ORDER FILES E125 PREPARE REQUISITIONS FOR PUBLICATIONS E130 DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR DIRECTIVES C71 EVALUATE INSPECTION REPORTS OR PROCEDURES C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS D107 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION OR STANDARD OPERATING PROCEDURES (SOP) C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING C66 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS C64 EVALUATE CAPABILITY OF EQUIPMENT DPASSENCER VEHICLES DPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENCER VEHICLES DAINT EQUIPMENT OR FACILITIES DAILUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES DAINT CAUGUMENT LISTINGS (CDRL) DISCREPANCIES DISCREPANCIES DAINT CAUGUMENT LISTINGS (CDRL) DISCREPANCIES DAINT CAUGUMENT DAINT CAUGUMENT DAINT CAUGUMENT DAINT CAUGUMENT DAINT CAUGUMENT | E11/   | MAINTAIN CODDECDONDENCE ETTEC                             | 50                               |
| DIRECTIVES 40  C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30  D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION 30  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20  C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20  EVALUATE CAPABILITY OF EQUIPMENT 20  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20  W853 PAINT EQUIPMENT OR FACILITIES 10  W855 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0, 304X4, OR 304X6 10  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10  C66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10  V855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   | E122   | PREPARE DEFICIENCY REPORTS                                | 50                               |
| DIRECTIVES 40  C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30  D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION 30  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20  C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20  EVALUATE CAPABILITY OF EQUIPMENT 20  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20  W853 PAINT EQUIPMENT OR FACILITIES 10  W855 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0, 304X4, OR 304X6 10  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10  C66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10  V855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   | B60    | WRITE CORRESPONDENCE                                      | 50                               |
| DIRECTIVES 40  C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30  D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION 30  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20  C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20  EVALUATE CAPABILITY OF EQUIPMENT 20  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20  W853 PAINT EQUIPMENT OR FACILITIES 10  W855 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0, 304X4, OR 304X6 10  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10  C66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10  V855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   | B35    | DIRECT MAINTENANCE OF ADMINISTRATIVE, PUBLICATION, OR     | 30                               |
| DIRECTIVES 40  C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30  D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION 30  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20  C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20  EVALUATE CAPABILITY OF EQUIPMENT 20  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20  W853 PAINT EQUIPMENT OR FACILITIES 10  W855 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0, 304X4, OR 304X6 10  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10  C66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10  V855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   |        | TECHNICAL ORDER FILES                                     | 40                               |
| DIRECTIVES 40  C71 EVALUATE INSPECTION REPORTS OR PROCEDURES 40  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS 30  D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION 30  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20  C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20  EVALUATE CAPABILITY OF EQUIPMENT 20  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20  W853 PAINT EQUIPMENT OR FACILITIES 10  W855 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304X0, 304X4, OR 304X6 10  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10  C66 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10  V855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   | E125   | PREPARE REQUISITIONS FOR PUBLICATIONS                     | 40                               |
| C71 EVALUATE INSPECTION REPORTS OR PROCEDURES  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP)  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING C66 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS  C64 EVALUATE CAPABILITY OF EQUIPMENT  C65 EVALUATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES  A13 ESTABLISH PUBLICATION LIBRARIES  C66 PAINT EQUIPMENT OR FACILITIES  B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6  C75 EVALUATE SAFETY PROGRAMS  C67 EVALUATE SAFETY PROGRAMS  C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  DISCREPANCIES  C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  D10 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  10   | E113   | DISTRIBUTE CORRESPONDENCE, TECHNICAL INFORMATION, OR      | 40                               |
| C71 EVALUATE INSPECTION REPORTS OR PROCEDURES  C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP)  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING  C66 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS  C66 EVALUATE CAPABILITY OF EQUIPMENT  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES  A13 ESTABLISH PUBLICATION LIBRARIES  D10 W853 PAINT EQUIPMENT OR FACILITIES  B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES  C67 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES  C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  W855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS   |        | DIRECTIVES  | 40                               |
| C73 EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES 40 D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING C66 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS C66 EVALUATE CAPABILITY OF EQUIPMENT OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES A13 ESTABLISH PUBLICATION LIBRARIES DAINT EQUIPMENT OR FACILITIES D55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6 C75 EVALUATE SAFETY PROGRAMS C67 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) UNB55 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS   | C71    | EVALUATE INSPECTION REPORTS OR PROCEDURES                 | • -                              |
| SUPPLIES  D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS  D20 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION  A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI),  OR STANDARD OPERATING PROCEDURES (SOP)  C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING  C66 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS  C66 EVALUATE CAPABILITY OF EQUIPMENT  W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES  A13 ESTABLISH PUBLICATION LIBRARIES  DAINT EQUIPMENT OR FACILITIES  B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO,  304X4, OR 304X6  C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL  DISCREPANCIES  C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  10  C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL)  10  W855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS  | C73    | EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR   | 40                               |
| D107 MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL OR TECHNICAL INFORMATION A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30 C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS C64 EVALUATE CAPABILITY OF EQUIPMENT 20 W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20 A13 ESTABLISH PUBLICATION LIBRARIES 20 W853 PAINT EQUIPMENT OR FACILITIES 10 B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6 10 C75 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10 C67 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10 C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10 I207 PERFORM SAFETY INSPECTIONS 10 W855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   |        |   | 40                               |
| D97 DEMONSTRATE HOW TO LOCATE NONTECHNICAL INFORMATION 30 A11 ESTABLISH ORGANIZATIONAL POLICIES, OFFICE INSTRUCTIONS (OI), OR STANDARD OPERATING PROCEDURES (SOP) 30 C83 SELECT INDIVIDUALS FOR SPECIALIZED TRAINING 20 C68 EVALUATE EQUIPMENT OPERATIONAL, MAINTENANCE, OR REPAIR REPORTS 20 C64 EVALUATE CAPABILITY OF EQUIPMENT 20 W852 OPERATE SMALL GOVERNMENT VEHICLES, SUCH AS PICKUPS OR PASSENGER VEHICLES 20 A13 ESTABLISH PUBLICATION LIBRARIES 20 W853 PAINT EQUIPMENT OR FACILITIES 10 B55 SUPERVISE MILITARY PERSONNEL WITH AFS OTHER THAN 304XO, 304X4, OR 304X6 10 C75 EVALUATE SAFETY PROGRAMS 10 C65 EVALUATE CAUSES OF MISSION ABORTS OR OPERATIONAL DISCREPANCIES 10 C67 EVALUATE CONTRACT DATA REQUIRMENT LISTINGS (CDRL) 10 I207 PERFORM SAFETY INSPECTIONS 10 W855 PERFORM OPERATOR MAINTENANCE ON HAND OR AUTOMATIC WEAPONS 10   |        |   | • -                              |
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